

How to Complete the Workplace Hazardous Materials Information System Label

Under the Newfoundland and Labrador Occupational Health and Safety Act, Workplace Hazardous Materials Information System Regulations a workplace label is required on each container decanted from a supplier container or material created in the laboratory.

A Material Safety Data Sheet is required for products under the Act and products created in the laboratory.

Use the Material Safety Data Sheet to obtain the information required on the label.

Step One: Product/Material Identification

Enter the name of the material on the label, the name of the material will be found in Part One of the Material Safety Data Sheet

Step Two: Hazard Identification

Enter the hazards associated with this product. Hazard identification will be found in Part Three of the Material Safety Data Sheet

Step Three: Protective Equipment

Enter the Personal Protective Equipment and other measures required to ensure the material is handled in a safe manner. Personal Protective Equipment and other measures such as engineering or administrative measure will be found in Part Three and Part Eight of the Material Safety Data Sheet.

Toxicological Information will be found in Part 11 of the MSDS. The labels do not require toxicological information – it is important the product user understand the toxicological information.

Regulatory limits will be found in Part 15 of the MSDS. The labels do not require regulatory limit information – it is important the product user understand the regulatory information.

Step Four: NFPA Fire, Health Reactivity Ratings

NFPA ratings are not a legislative requirement on a WHMIS label. The labels provide space for NFPA ratings to provide an easy and visually accessible means of determining a hazard level for the material in use. NFPA ratings will be found in Part 16. The higher the number in each of the NFPA diamonds the more

reactive, flammable or harmful the product is. The NFPA also provides for other designations such as the trefoil for radioactive, consult the NFPA guide in Part 16 for further information.

Example of Small Flask Label

NFPA RATINGS ARE ENTERED FROM PART 16

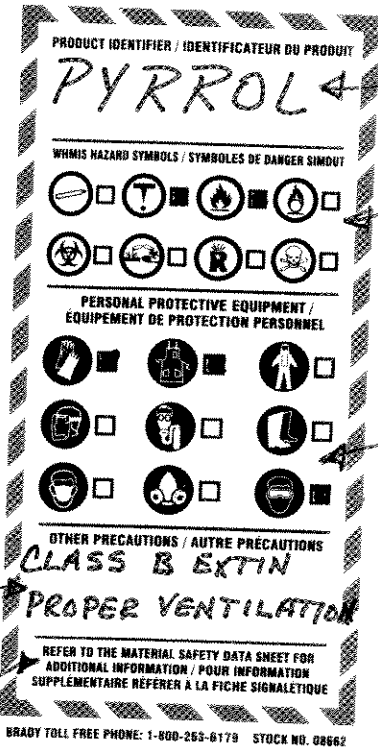
Health	2	Product:	PYRROLE
Flammability	2	PPE / Hazard:	GLOVES, LAB COAT, GOGGLES, FUME HOOD, FIRE EXTINGUISHER
Reactivity	0		
Other			
Refer to material safety data sheet			

PART ONE: THE NAME OF THE MATERIAL IS IDENTIFIED

PERSONAL PROTECTIVE EQUIPMENT IS ENTERED

REFERENCE TO THE MATERIAL SAFETY DATA SHEET - REQUIRED UNDER LEGISLATION

Example of Pictorial Label



PRODUCT IDENTIFICATION FROM PART ONE OF THE MSDS

HAZARD IDENTIFICATION FROM PART THREE OF THE MSDS

PERSONAL PROTECTIVE EQUIPMENT FROM PART THREE OF THE MSDS

ADDITIONAL HAZARDS - CARCINOGEN MUTAGENIC ARE EXAMPLES

REFERENCE TO THE MSDS

Example of Large Label

Health Hazard 4. Deadly 3. Extreme Danger 2. Dangerous 1. Slight Hazard 0. No Hazard	Fire Hazard (Flash Points) 4. Below 73 °F 3. Below 100 °F 2. Below 200 °F 1. Above 200 °F 0. Will Not Burn
PYRROLE Chemical Name	P7976 MSDS#
Health 2	Fire 2
J.T. BAKER Manufacturer	109-97-7 CAS#
Special Hazard W - Water Reactive OX - Oxidizer R - Radioactive COR - Corrosive ACD - Acid ALK - Alkali	Reactivity 4. May Detonate 3. Explosive 2. Unstable 1. Normally Stable 0. Stable
Hazard Class and PPE Required USE FUME HOOD Target Organs TOXIC BY SKIN ABSORPTION, INHALATION, INGESTION RESPIRATORY IRRITANT CLASS B EXTINGUISHER	SP Hazard 0

THE PRODUCT IDENTIFICATION IS ENTERED.

THE MSDS NUMBER, CAS NUMBER AND MANUFACTURER ARE FOUND IN PART ONE

MSDS REFERENCE IS REQUIRED IN THE LEGISLATION.

THE HAZARD IDENTIFICATION FOUND IN PART THREE IS ENTERED

TARGET ORGANS OR OTHER HAZARDS CAN BE LISTED

PERSONAL PROTECTIVE EQUIPMENT FROM PART THREE IS ENTERED



From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865



24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. And Canada
Chemtrec: 703-527-3087

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

PYRROLE

1. Product Identification

Synonyms: Azole; Imidole
CAS No.: 109-97-7
Molecular Weight: 67.09
Chemical Formula: C4H5N
Product Codes: U703

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
1H-Pyrrole	109-97-7	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED. MAY BE HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)
Flammability Rating: 2 - Moderate
Reactivity Rating: 1 - Slight
Contact Rating: 2 - Moderate (Life)
Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER
Storage Color Code: Red (Flammable)

Potential Health Effects

Information on the human health effects from exposure to this substance is limited.

Inhalation:

No information found, but compound should be handled as a potential health hazard. May cause irritation to the respiratory tract. Symptoms may include coughing, sore throat, labored breathing, and chest pain. May be absorbed into the bloodstream with symptoms similar to ingestion.

Ingestion:

May cause abdominal pain, vomiting and diarrhea. May cause central nervous system effects. Severe exposures may cause liver damage.

Skin Contact:

No information found, but compound should be handled as a potential health hazard. May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.

Eye Contact:

No information found, but compound should be handled as a potential health hazard. May cause irritation, redness and pain.

Chronic Exposure:

Repeated exposure to low concentrations may be cumulative.

Aggravation of Pre-existing Conditions:

Persons with pre-existing respiratory disorders, blood disorders or impaired liver function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:

Flash point: 39C (102F) CC

Flammable liquid. Fire hazard when exposed to heat or flame.

Explosion:

Above the flash point, explosive vapor-air mixtures may be formed. Sensitive to static discharge.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

J. T. Baker SOLUSORB® solvent adsorbent is recommended for spills of this product.

7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do Not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

Use explosion-proof equipment. A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Brown liquid.

Odor:

Agreeable chloroform-like odor.

Solubility:

Sparingly soluble in water.

Specific Gravity:

0.97 @ 20C/4C

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

131C (268F)

Melting Point:

-23C (-9F)

Vapor Density (Air=1):

2.31

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Polymerizes under the influence of acids and glycols.

Darkens on standing with exposure to oxygen.

Hazardous Decomposition Products:

Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization:

No information found.

Incompatibilities:

Acids, oxidizers.

Conditions to Avoid:

Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a mutagen.

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
1H-Pyrrole (109-97-7)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (PYRROLE)
Hazard Class: 3
UN/NA: UN1993
Packing Group: III
Information reported for product/size: 100G

International (Water, I.M.O.)

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (PYRROLE)
Hazard Class: 3
UN/NA: UN1993
Packing Group: III
Information reported for product/size: 100G

International (Air, I.C.A.O.)

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (PYRROLE)
Hazard Class: 3
UN/NA: UN1993
Packing Group: III
Information reported for product/size: 100G

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
1H-Pyrrole (109-97-7)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	Korea	DSL	Canada NDSL	Phil.
1H-Pyrrole (109-97-7)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
1H-Pyrrole (109-97-7)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
1H-Pyrrole (109-97-7)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No
 Reactivity: No (Pure / Liquid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 2 Flammability: 2 Reactivity: 0

Label Hazard Warning:

WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED. MAY BE HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Label Precautions:

- Avoid breathing vapor.
- Avoid contact with eyes, skin and clothing.
- Keep container closed.
- Use with adequate ventilation.
- Wash thoroughly after handling.
- Keep away from heat, sparks and flame.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases, get medical attention.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 3.

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