



MATERIAL SAFETY DATA SHEET

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Product name: EXPANDEX® 5PT

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: EXPANDEX® 5PT

Chemical name: 5-phenyl tetrazole

Supplier: Crompton Corporation
199 Benson Road
Middlebury, CT 06749, USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Crompton Corporation Emergency Response (24 hours)
800-292-5898

For MSDS, Product Safety, or regulatory inquiries, call: 866-430-2775

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS#	CONCENTRATION
5-Phenyl tetrazole	18039-42-4	100.0 %

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!
MAY BE HARMFUL IF SWALLOWED.

IRRITATING TO THE MUCOUS MEMBRANE, EYES AND SKIN.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
NONE KNOWN.

4. FIRST AID MEASURES

Swallowing
Give water to drink. Induce vomiting. Obtain medical attention immediately.

Skin
Wash skin with soap and water. Obtain medical attention if irritation persists.

Inhalation
Remove to fresh air. If breathing is difficult, administer oxygen. Obtain medical attention if symptoms persist.

MARKETED BY
**HARWICK STANDARD
DISTRIBUTION CORPORATION**
60 S. Seiberling Street • Akron, Ohio 44305

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Eye contact

Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention if discomfort persists.

5. FIRE-FIGHTING MEASURES

Flash point: 260 °C (500 °F)**Autoignition temperature:** Not determined**NFPA CLASSIFICATION**

Health: 1	Flammability: 3	Reactivity: 1	Special provisions: No data available.
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Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear. Self-contained breathing apparatus.

Extinguishing media

Suitable:

- CO2
- dry powder
- foam
- water fog

Unsuitable: - water spray

Unusual fire and explosion hazards

Avoid dispersion of dust in air to reduce potential for dust ignition/explosions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment. Avoid contact with eyes and skin.

Environmental precautions

Prevent from entering sewer system, surface water or soil.

Methods for cleaning up

Sweep up and collect in a suitable container for disposal.

Avoid dust formation.

7. HANDLING AND STORAGE

HANDLING

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Handling precautions

Do not get in eyes, on skin, on clothing. Avoid dispersion of dust in air.

Other precautions

Avoid dust formation.

Electrically bond and ground all containers and equipment.

STORAGE**Storage requirements**

Store in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION**Respiratory protection**

A respirator approved for dust/fume or mist protection is recommended for mists, sprays or aerosols.

Hand protection / protective gloves

Chemical resistant protective gloves

Eye protection

Safety glasses with side shields.

Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

ENGINEERING CONTROLS**Ventilation**

Local ventilation is needed in the presence of airborne mists, sprays or aerosols and/or high vapor concentrations.

EXPOSURE LIMITS

No exposure limits have been established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Powder
Color	White
Odor	Characteristic

OTHER PROPERTIES

Boiling point	Not determined
Melting point	212 °C (413 °F) at STP unless specified below.
Density	1.42 g/cm ³
Solubility in water	Insoluble

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Solubility in organic solvents	No data available.
Flash point	260 °C (500 °F) Method: Cleveland open cup
Thermal decomposition	230 °C 446 °F
Autoignition temperature	Not determined

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions.

Incompatible materials

Strong acids.
Strong bases.
Oxidizing agents.

Hazardous reactions

Keep away from heat.

Hazardous combustion products

Irritating fumes.
Oxides of carbon.
Oxides of nitrogen.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

SKIN ABSORPTION

Test results

Acute toxicity: LD50 - Rabbit
Result: > 2,000 mg/kg

INHALATION

Test results

Acute toxicity: LC50 - Rats
Result: > 200 mg/l
Exposure time: 1 h

SKIN CONTACT

Test results

Skin irritation: Species: Rabbit
Remark: May cause slight irritation.

EYE CONTACT

Product name: EXPANDEX® 5PT

Test results

Eye irritation: Species: Rabbit
Remark: Causes slight to moderate irritation.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

General: Avoid discharge to sewers and natural waters. Bury in a landfill or incinerate in a furnace in accordance with applicable national and local regulations.

Non-cleaned packages

Empty drums should be decontaminated and either passed to an approved drum reconditioner or destroyed. Containers that cannot be cleaned must be treated as waste.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Massachusetts Right-To-Know Substance List (MSL)--Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****



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Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name

CAS#

New Jersey TS Number

5-Phenyl tetrazole

18039-42-4

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard

California Proposition 65

**** NONE ****

CHEMICAL INVENTORY

Canada: This product is on the DSL.

Europe: The ingredients of this mixture are on the EINECS inventory.

United States: This product is on the TSCA inventory.

Australia: This product is on the AICS inventory.

China: This product is on the IECSC Inventory.

Japan: This product is on the ENCS inventory.

FDA

Food additive

Not applicable.

Food contact

Not applicable.

Cosmetics

Not applicable.

Pharmaceuticals

Not applicable.

16. OTHER INFORMATION

FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand)
CONSULT REGULATORY SPECIALIST.



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HMIS RATING

Health: 1	Flammability: 3	Reactivity: 1	PPI: X
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LEGEND

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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