

Safety Data Sheet

1. Identification of the Substance or Mixture and of the Supplier

1.1 Product Identifier

Product Code(s): 158

Description: Control Test Paper

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product to be used for analytical purposes only

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Precision Laboratories

415 S. Airpark Road

Cottonwood, AZ 86326

Phone (928)-649-9833

1.4 Emergency telephone number

ChemTel, Inc.

(800)-255-3924, +1 (813)-248-0585

2. Hazards Identification

2.1 Classification of substance or mixture

The product is not classified as hazardous according to GHS or OSHA regulations.

The product is an "Article" as defined in the OSHA Hazard Communication Standard (29CFR 1910.1200(c), and therefore is outside the scope of the GHS standard and does not require an SDS. This SDS is provided for informational purposes only.

2.2 Label elements

The product does not require labeling.

The product does not require any hazard pictograms.

The product does not require any signal word.

2.3 Other hazards

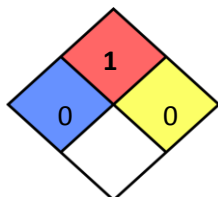
NFPA and HMIS ratings (scale 0-4)

Health = 0

Fire = 1

Reactivity = 0

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



Safety Data Sheet

3. Composition/Information on Ingredients

3.1 Substances or Mixtures

Description: Mixture of substances listed below.

Chemical Name	CAS #	EINECS #	Concentration
Cellulose	9004-34-6	232-674-9	95-100%
Indicator dye(s)	n/a	n/a	< 1%
Surfactants	n/a	n/a	< 1%
Polymers	n/a	n/a	< 1%
Buffers	n/a	n/a	< 1%

Ingredients not listed by name are proprietary to Precision Laboratories and considered a trade secret. These ingredients may be disclosed only in a medical emergency.

4. First Aid Measures

4.1 Description of first aid measures

General information: Adverse health effects are not reasonably expected from normal use of product.

After inhalation: Unlikely route of exposure. Supply fresh air; consult with doctor in case of complaints.

After eye contact: Unlikely route of exposure. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After skin irritation: Immediately wash with water and soap. Rinse thoroughly. If skin irritation continues, consult a doctor.

After swallowing: May cause discomfort if ingested in large amounts. Contact medical help immediately. Do not induce vomiting unless directed to do so by a doctor.

4.2 Most important symptoms/effects, acute and delayed

Adverse health effects are not reasonably expected from normal use of product.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Indications for management of overdose or pediatric ingestion only.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: None

Safety Data Sheet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire

5.3 Advice to firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional Information

No further relevant information is available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for contamination and cleaning up

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

7.1 Precautions for safe handling

Handle product in accordance to test instruction provided with product, if available.

Store in a cool, dry place in tightly closed containers.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and containers:

Protect from humidity and water.

Avoid storage near extreme heat, ignition sources or open flame.

Keep away from children.

Information about storage in one common storage facility:

Keep product in original packages tightly closed during handling

Further information about storage conditions:

No special requirements

7.3 Specific end use(s)

No further relevant information available.

Safety Data Sheet

8. Exposure Controls/Personal Protection

Additional information about design of technical facilities:

No further data; see Item 7.

8.1 Control parameters – Ingredients with limit values that require monitoring at the workplace:

Not required.

9004-34-6 Cellulose	
PEL (USA)	Long term value: 15* 5** mg/m ³ *total dust ** respirable fraction
REL (USA)	Long term value: 10* 5** mg/m ³ *total dust ** respirable fraction
TLV (USA)	Long term value: 10 mg/m ³
EL (Canada)	Long term value: 10 mg/m ³
EV (Canada)	Long term value: 10 mg/m ³ Paper fiber, total dust

DNELs No further relevant information available.

PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be taken when handling chemicals.

Keep away from foodstuffs, beverages, and feed.

Respiratory protection:

Not required under normal conditions of use.

Protection of hands:

Gloves not required under normal conditions of use.

Eye protection:

Not required under normal conditions of use.

Body protection:

Not required under normal conditions of use.

Limitation and supervision of exposure into the environment:

No special requirements.

Risk management measures:

No special requirements.

Safety Data Sheet

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Test strip, liquid impregnated on inert carrier material

Color: Product may have color.

Odor: Odorless

Odor threshold: Not determined

pH value at 20°C: Not applicable

Melting point: Not applicable

Boiling point: Not applicable

Flash point: Not applicable

Auto/Self-ignition temperature: >451°F/232°C

Decomposition temperature: Not determined

Self-igniting: Not determined

Danger of explosion: Product does not present an explosive hazard

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapor Pressure: Not applicable

Density at 20°C: Not applicable

Relative density: Not determined

Vapor density: Not applicable

Evaporation rate: Not applicable

Solubility in/Miscible with water: chemicals in strip are soluble in water

Partition coefficient:

(n-octanol/water) Not determined

Viscosity:

Dynamic: Not applicable

Kinematic: Not applicable

9.2 Other information No further relevant information available

10. Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition/conditions to be avoided:

To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions

None under normal operating conditions.

Safety Data Sheet

10.4 Conditions to avoid

Keep away from ignition sources do not smoke around product
Keep product stored in a cool, dry place

10.5 Incompatible materials

None under normal operating conditions

10.6 Hazardous decomposition products:

None under normal operating conditions

11. Toxicological Information

11.1 Information on toxicological effects

This information is valid for pure substances.

Acute toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cellulose (CAS No. 9004-34-6)	> 5000 mg/kg	> 2000 mg/kg	> 5800 _{4h} mg/m ³
Indicator dye(s)	n/a	n/a	n/a
Surfactants	n/a	n/a	n/a
Polymers	n/a	n/a	n/a
Buffers	n/a	n/a	n/a

Primary irritant effect:

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes

Sensitization:

No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects based on our experience and information available

The substance is not subject to classification according to the latest version of the EU lists

12. Ecological Information

12.1 Toxicity

Aquatic toxicity:

This product contains materials that are harmful to the environment.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bio accumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: The product contains materials that are harmful to the environment.

Safety Data Sheet

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects

No further relevant information available.

13. Disposal Considerations

13.1 Waste treatment methods

Recommendation

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned packaging

Recommendation

Disposal must be made according to official regulations.

14. Transport Information

14.1 UN-Number

DOT, ADR, AND, IMDG, IATA

Not regulated

14.2 UN proper shipping name

DOT, ADR, AND, IMDG, IATA

Not regulated

14.3 Transport hazard class(es)

DOT, ADR, AND, IMDG, IATA

Class

Not regulated

14.4 Packaging group

DOT, ADR, IMDG, IATA

Not regulated

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II

of MARPOL73/78 and IBC Code

Not applicable

UN "Model Regulation":

Safety Data Sheet

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product is not classified as hazardous according to GHS or OSHA regulations. The product is an "Article" as defined in the OSHA Hazard Communication Standard (29CFR 1910.1200(c), and therefore is outside the scope of the GHS standard and does not require an SDS.

No other regulatory information is available.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other Information

This information is based on our present knowledge; however, this does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The information provided in this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

Precision Laboratories Inc. will not be responsible for damages resulting from the use or reliance upon this information.

Sources

SDS prepared by:

Precision Laboratories Inc.

415 S. Airpark Road

Cottonwood, AZ 86326

928-649-9833

Get the latest SDS at www.preclaboratories.com

Safety Data Sheet

1. Identification of the Substance or Mixture and of the Supplier

1.1 Product Identifier

Product Code(s): 166

Description: Sodium Benzoate Test Paper

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product to be used for analytical purposes only

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Precision Laboratories

415 S. Airpark Road

Cottonwood, AZ 86326

Phone (928)-649-9833

1.4 Emergency telephone number

ChemTel, Inc.

(800)-255-3924, +1 (813)-248-0585

2. Hazards Identification

2.1 Classification of substance or mixture

The product is not classified as hazardous according to GHS or OSHA regulations.

The product is an "Article" as defined in the OSHA Hazard Communication Standard (29CFR 1910.1200(c), and therefore is outside the scope of the GHS standard and does not require an SDS. This SDS is provided for informational purposes only.

2.2 Label elements

The product does not require labeling.

The product does not require any hazard pictograms.

The product does not require any signal word.

2.3 Other hazards

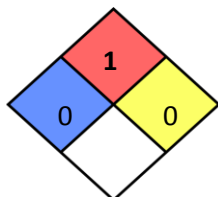
NFPA and HMIS ratings (scale 0-4)

Health = 0

Fire = 1

Reactivity = 0

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



Safety Data Sheet

3. Composition/Information on Ingredients

3.1 Substances or Mixtures

Description: Mixture of substances listed below.

Chemical Name	CAS #	EINECS #	Concentration
Cellulose	9004-34-6	232-674-9	95-100%
Indicator dye(s)	n/a	n/a	< 1%
Surfactants	n/a	n/a	< 1%
Polymers	n/a	n/a	< 1%
Buffers	n/a	n/a	< 1%

Ingredients not listed by name are proprietary to Precision Laboratories and considered a trade secret. These ingredients may be disclosed only in a medical emergency.

4. First Aid Measures

4.1 Description of first aid measures

General information: Adverse health effects are not reasonably expected from normal use of product.

After inhalation: Unlikely route of exposure. Supply fresh air; consult with doctor in case of complaints.

After eye contact: Unlikely route of exposure. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After skin irritation: Immediately wash with water and soap. Rinse thoroughly. If skin irritation continues, consult a doctor.

After swallowing: May cause discomfort if ingested in large amounts. Contact medical help immediately. Do not induce vomiting unless directed to do so by a doctor.

4.2 Most important symptoms/effects, acute and delayed

Adverse health effects are not reasonably expected from normal use of product.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Indications for management of overdose or pediatric ingestion only.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: None

Safety Data Sheet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire

5.3 Advice to firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional Information

No further relevant information is available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for contamination and cleaning up

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

7.1 Precautions for safe handling

Handle product in accordance to test instruction provided with product, if available.

Store in a cool, dry place in tightly closed containers.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and containers:

Protect from humidity and water.

Avoid storage near extreme heat, ignition sources or open flame.

Keep away from children.

Information about storage in one common storage facility:

Keep product in original packages tightly closed during handling

Further information about storage conditions:

No special requirements

7.3 Specific end use(s)

No further relevant information available.

Safety Data Sheet

8. Exposure Controls/Personal Protection

Additional information about design of technical facilities:

No further data; see Item 7.

8.1 Control parameters – Ingredients with limit values that require monitoring at the workplace:

Not required.

9004-34-6 Cellulose	
PEL (USA)	Long term value: 15* 5** mg/m ³ *total dust ** respirable fraction
REL (USA)	Long term value: 10* 5** mg/m ³ *total dust ** respirable fraction
TLV (USA)	Long term value: 10 mg/m ³
EL (Canada)	Long term value: 10 mg/m ³
EV (Canada)	Long term value: 10 mg/m ³ Paper fiber, total dust

DNELs No further relevant information available.

PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be taken when handling chemicals.

Keep away from foodstuffs, beverages, and feed.

Respiratory protection:

Not required under normal conditions of use.

Protection of hands:

Gloves not required under normal conditions of use.

Eye protection:

Not required under normal conditions of use.

Body protection:

Not required under normal conditions of use.

Limitation and supervision of exposure into the environment:

No special requirements.

Risk management measures:

No special requirements.

Safety Data Sheet

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Test strip, liquid impregnated on inert carrier material

Color: Product may have color.

Odor: Odorless

Odor threshold: Not determined

pH value at 20°C: Not applicable

Melting point: Not applicable

Boiling point: Not applicable

Flash point: Not applicable

Auto/Self-ignition temperature: >451°F/232°C

Decomposition temperature: Not determined

Self-igniting: Not determined

Danger of explosion: Product does not present an explosive hazard

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapor Pressure: Not applicable

Density at 20°C: Not applicable

Relative density: Not determined

Vapor density: Not applicable

Evaporation rate: Not applicable

Solubility in/Miscible with water: chemicals in strip are soluble in water

Partition coefficient:

(n-octanol/water) Not determined

Viscosity:

Dynamic: Not applicable

Kinematic: Not applicable

9.2 Other information No further relevant information available

10. Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition/conditions to be avoided:

To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions

None under normal operating conditions.

Safety Data Sheet

10.4 Conditions to avoid

Keep away from ignition sources do not smoke around product
Keep product stored in a cool, dry place

10.5 Incompatible materials

None under normal operating conditions

10.6 Hazardous decomposition products:

None under normal operating conditions

11. Toxicological Information

11.1 Information on toxicological effects

This information is valid for pure substances.

Acute toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cellulose (CAS No. 9004-34-6)	> 5000 mg/kg	> 2000 mg/kg	> 5800 _{4h} mg/m ³
Indicator dye(s)	n/a	n/a	n/a
Surfactants	n/a	n/a	n/a
Polymers	n/a	n/a	n/a
Buffers	n/a	n/a	n/a

Primary irritant effect:

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes

Sensitization:

No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects based on our experience and information available

The substance is not subject to classification according to the latest version of the EU lists

12. Ecological Information

12.1 Toxicity

Aquatic toxicity:

This product contains materials that are harmful to the environment.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bio accumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: The product contains materials that are harmful to the environment.

Safety Data Sheet

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects

No further relevant information available.

13. Disposal Considerations

13.1 Waste treatment methods

Recommendation

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned packaging

Recommendation

Disposal must be made according to official regulations.

14. Transport Information

14.1 UN-Number

DOT, ADR, AND, IMDG, IATA Not regulated

14.2 UN proper shipping name

DOT, ADR, AND, IMDG, IATA Not regulated

14.3 Transport hazard class(es)

DOT, ADR, AND, IMDG, IATA
Class Not regulated

14.4 Packaging group

DOT, ADR, IMDG, IATA Not regulated

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II

of MARPOL73/78 and IBC Code Not applicable

UN "Model Regulation": ---

Safety Data Sheet

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product is not classified as hazardous according to GHS or OSHA regulations. The product is an "Article" as defined in the OSHA Hazard Communication Standard (29CFR 1910.1200(c), and therefore is outside the scope of the GHS standard and does not require an SDS.

No other regulatory information is available.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other Information

This information is based on our present knowledge; however, this does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The information provided in this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

Precision Laboratories Inc. will not be responsible for damages resulting from the use or reliance upon this information.

Sources

SDS prepared by:

Precision Laboratories Inc.

415 S. Airpark Road

Cottonwood, AZ 86326

928-649-9833

Get the latest SDS at www.preclaboratories.com

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 14.05.2014

Revision: 14.05.2014

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Phenyl Thiourea Paper, Phenylthiocarbamide, PTC Paper**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Precision Laboratories
415 S. Airpark Road
Cottonwood, AZ 86326
Phone: (928) 649-9833
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to GHS regulations.
The product is not classified as hazardous according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:** Not applicable.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not Regulated
- **Hazard pictograms** Not Regulated
- **Signal word** Not Regulated
- **Hazard-determining components of labelling:** None.
- **Hazard statements** Not Regulated
- **Hazard description:**
- **WHMIS-symbols:** Not hazardous under WHMIS.
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 14.05.2014

Revision: 14.05.2014

Trade name: Phenyl Thiourea Paper, Phenylthiocarbamide, PTC Paper

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· **HMIS Long Term Health Hazard Substances**

None of the ingredients is listed.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.


3 Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

None in reportable quantities.

CAS: 9004-34-6 EINECS: 232-674-9	Cellulose	substance with a Community workplace exposure limit	50-100%
CAS: 103-85-5 EINECS: 203-151-2	phenyl-2-thiourea	 T+ R28	< 0,1%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **4.1 Description of first aid measures**

· **General information:** Adverse health effects are not reasonably expected from normal use of product.

· **After inhalation:**

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Unlikely route of exposure.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Product is indicated for oral usage. In cases of overingestions or pediatric ingestions, DO NOT INDUCE VOMITING. Contact a physician and hospital.

· **4.2 Most important symptoms and effects, both acute and delayed**

Adverse health effects are not reasonably expected from normal use of product.

· **Hazards** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

Indications for management of overdosage or paediatric ingestion only.

Monitor circulation.

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Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 14.05.2014

Revision: 14.05.2014

Trade name: Phenyl Thiourea Paper, Phenylthiocarbamide, PTC Paper

Medical supervision for at least 48 hours.

(Contd. of page 2)

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** No further relevant information available.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Protect from humidity and water.
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** No special requirements.
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 14.05.2014

Revision: 14.05.2014

Trade name: Phenyl Thiourea Paper, Phenylthiocarbamide, PTC Paper

(Contd. of page 3)

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
Not required.

9004-34-6 Cellulose

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m ³
EL (Canada)	Long-term value: 10 mg/m ³
EV (Canada)	Long-term value: 10 mg/m ³ paper fibre, total dust

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
- **Respiratory protection:** Not required under normal conditions of use.
- **Protection of hands:** Gloves not required under normal conditions of use.
- **Eye protection:**



Safety glasses

- **Body protection:**
Not required under normal conditions of use.
Protection may be required for spills.
- **Limitation and supervision of exposure into the environment** No special requirements.
- **Risk management measures** No special requirements.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

- | | |
|--------------------|----------------------------------|
| Form: | Liquid on inert carrier material |
| Colour: | White |
| Odour: | Odourless |
| Odour threshold: | Not determined. |
| pH-value at 20 °C: | 5-7,5 |

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- **Change in condition**
 - Melting point/Melting range:** Not Determined.
 - Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Auto/Self-ignition temperature:** >451°F / 232 °C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure:** Not applicable.
- **Density at 20 °C:** 0,38 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
- **9.2 Other information** No further relevant information available.

10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**
 - Reacts with strong alkali.
 - Reacts with strong oxidizing agents.
- **10.4 Conditions to avoid**
 - Keep ignition sources away - Do not smoke.
 - Store away from oxidizing agents.
 - Moisture.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Nitrogen oxides (NOx)

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Sulphur oxides (SOx)

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11 Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· Primary irritant effect:

· **on the skin:** Slight irritant effect on skin and mucous membranes.

· **on the eye:** Slight irritant effect on eyes.

· **Sensitization:** No sensitizing effects known.

· Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:** The product contains materials that are harmful to the environment.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· Additional ecological information:

· **General notes:** The product contains materials that are harmful to the environment.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

- **14.1 UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **14.2 UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **14.3 Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Not Regulated
- **14.4 Packing group**
- **DOT, ADR, IMDG, IATA** Not Regulated
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Canada**

· **Canadian Domestic Substances List (DSL)**

Not all ingredients listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

R28 Very toxic if swallowed.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

· **Sources**

SDS Prepared by:

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Website: www.chemtelinc.com

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