# Trinity Biotech Safety Data Sheet

## G6-PDH Substrate, P/N 345-8, 345-B

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/15/2019 Version: 1.0

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : G6-PDH Substrate, P/N 345-8, 345-B

#### Recommended use and restrictions on use

Use of the substance/mixture : Medical Diagnostics

Restrictions on use : No additional information available

#### Supplier

Trinity Biotech **IDA Business Park** Southern Cross Road Brav. Co. Wicklow - Ireland

T 00353 1 276 9800 (Technical Support Group)

www.trinitybiotech.com

#### 1.4. **Emergency telephone number**

Emergency number

: Contact your local Emergency Health Care Provider; Ireland-Technical Support Group 00353-

1-276-9800 (operating hours 7:00-18:00)

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not classified

#### GHS Label elements, including precautionary statements

#### **GHS US labelling**

No labelling applicable

#### Other hazards which do not result in classification 2.3.

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

- 1.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
- 1.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
- 1.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

### **SECTION 3: Composition/information on ingredients**

#### 3.1. **Substances**

Not applicable

#### 3.2. **Mixtures**

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

### **SECTION 4: First-aid measures**

#### Description of first aid measures 4.1.

First-aid measures general : Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : No significant signs or symptoms indicative of any health hazard are expected to occur.

#### Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : No particular fire or explosion hazard.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use extinguishing media appropriate for surrounding fire. Use water spray or fog for cooling

exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2. Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

#### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Handle and open

container with care.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and

other exposed areas with mild soap and water before eating, drinking or smoking and when

leaving work. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

#### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid creating or spreading dust. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

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#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Use rubber gloves.

#### Eye protection:

In case of dust production: protective goggles

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

#### Other information:

Do not eat, drink or smoke when using this product.

#### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear.

Colour : No data available : No data available Odour Odour threshold : No data available 7.62 (7.57 - 7.67) Melting point : No data available : No data available Freezing point : No data available Boiling point Flash point : No data available : No data available Relative evaporation rate (butylacetate=1) Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C No data available Relative density : No data available : No data available Solubility Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive limits : No data available Explosive properties : No data available Oxidising properties : No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

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### 10.6. Hazardous decomposition products

None under normal use.

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Unknown acute toxicity (GHS US)

1.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
1.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
1.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation

(Dust/Mist))

Skin corrosion/irritation Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitisation : Not classified : Not classified Germ cell mutagenicity Carcinogenicity Not classified Reproductive toxicity Not classified STOT-single exposure Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified Viscosity, kinematic : No data available

Symptoms/effects : No significant signs or symptoms indicative of any health hazard are expected to occur.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

| G6-PDH Substrate, P/N 345-8, 345-B |                  |
|------------------------------------|------------------|
| Persistence and degradability      | Not established. |

#### 12.3. Bioaccumulative potential

| G6-PDH Substrate, P/N 345-8, 345-B |                  |
|------------------------------------|------------------|
| Bioaccumulative potential          | Not established. |

#### 12.4. Mobility in soil

| G6-PDH Substrate, P/N 345-8, 345-B |                  |
|------------------------------------|------------------|
| Ecology - soil                     | Not established. |

#### 12.5. Other adverse effects

Other information : No additional information available.

#### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated.

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#### Transport by sea

Not regulated.

#### Air transport

Not regulated.

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

#### **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

#### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources : ACGIH (American Conference of Gov

: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at

http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. United Nations Economic Commission for Europe: About the

GHS. Accessed at http://www.unece.org/trans/danger/publi/ghs/ghs\_welcome\_e.html.

Other information : None.

#### Abbreviations and acronyms:

| ATE: Acute Toxicity Estimate  |
|---|
| CAS (Chemical Abstracts Service) number   |
| CLP: Classification, Labelling, Packaging.  |
| EC50: Environmental Concentration associated with a response by 50% of the test population. |
| GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).              |
| LD50: Lethal Dose for 50% of the test population  |
| STEL: Short Term Exposure Limits  |
| TWA: Time Weighted Average  |
| WEL: Workplace Exposure Limit   |
| European List of Waste (LoW) code   |

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NFPA health hazard : 1 - Materials that, under emergency conditions, can cause

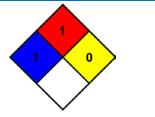
significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can

occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and not reactive with water.



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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/15/2019 Version: 1.0

#### **SECTION 1: Identification**

#### Identification 1.1.

Product form : Mixture

Product name : G6-PDH Reagent, P/N 345-5, 345-B

#### Recommended use and restrictions on use

Use of the substance/mixture : Medical Diagnostics

Restrictions on use : No additional information available

#### Supplier

Trinity Biotech **IDA Business Park** Southern Cross Road Brav. Co. Wicklow - Ireland

T 00353 1 276 9800 (Technical Support Group)

www.trinitybiotech.com

#### 1.4. **Emergency telephone number**

Emergency number : Contact your local Emergency Health Care Provider; Ireland-Technical Support Group 00353-

1-276-9800 (operating hours 7:00-18:00)

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin Sens. 1 H317 May cause an allergic skin reaction. Full text of hazard classes and H-statements : see section 16

#### GHS Label elements, including precautionary statements

#### **GHS US labelling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction.

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. Precautionary statements (GHS US)

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water/...

P321 - Specific treatment (see supplemental first aid instruction on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards which do not result in classification

No additional information available

#### Unknown acute toxicity (GHS US) 2.4.

Not applicable

### **SECTION 3: Composition/information on ingredients**

#### 3.1. **Substances**

Not applicable

#### 3.2. **Mixtures**

| Name      | Product identifier | %         | GHS-US classification  |
|-----------|--------------------|-----------|--|
| maleimide | (CAS-No.) 541-59-3 | 0.1 - 0.5 | Acute Tox. 3 (Oral), H301<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317 |

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\*Chemical name. CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : May cause an allergic skin reaction.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : No particular fire or explosion hazard.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use extinguishing media appropriate for surrounding fire. Use water spray or fog for cooling

exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2. Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

#### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

#### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Handle and open

container with care.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when

leaving work. Do not eat, drink or smoke when using this product.

leaving work. Do not eat, drink or smoke when using this product

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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## maleimide (541-59-3)

Not applicable

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid creating or spreading dust. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Use rubber gloves.

#### Eye protection:

In case of dust production: protective goggles

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

#### Other information:

Viscosity, kinematic Viscosity, dynamic

Explosive properties

Explosive limits

Do not eat, drink or smoke when using this product.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Lyophilized powder / cake.

Colour : white Yellow Odour : No data available Odour threshold No data available : 7.62 (7.57 - 7.67) pΗ Melting point : No data available Freezing point No data available **Boiling point** : No data available Flash point : No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density No data available : No data available Solubility Log Pow : No data available Auto-ignition temperature No data available : No data available Decomposition temperature

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: No data available

: No data available

No data availableNo data available

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Oxidising properties : No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

None under normal use.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

#### maleimide (541-59-3)

ATE US (oral) 100 mg/kg bodyweight

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects after skin contact : May cause an allergic skin reaction.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

| G6-PDH Reagent, P/N 345-5, 345-B |                  |
|----------------------------------|------------------|
| Persistence and degradability    | Not established. |

#### 12.3. Bioaccumulative potential

| G6-PDH Reagent, P/N 345-5, 345-B |                  |
|----------------------------------|------------------|
| Bioaccumulative potential        | Not established. |

#### 12.4. Mobility in soil

| G6-PDH Reagent, P/N 345-5, 345-B |                |                  |
|----------------------------------|----------------|------------------|
|                                  | Ecology - soil | Not established. |
| _                                |                |                  |

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#### 12.5. Other adverse effects

Other information : No additional information available.

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated.

#### Transport by sea

Not regulated.

#### Air transport

Not regulated.

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

#### **CANADA**

#### maleimide (541-59-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources : ACGIH (American Conference of Government Industrial Hygienists). European Chemicals

Agency (ECHA) C&L Inventory database. Accessed at

http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. United Nations Economic Commission for Europe: About the GHS. Accessed at http://www.unece.org/trans/danger/publi/ghs/ghs\_welcome\_e.html.

Other information : None.

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#### Full text of H-statements:

| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3        |
|---------------------|--|
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1B   |
| Skin Sens. 1        | Skin sensitisation, Category 1           |
| H301                | Toxic if swallowed.                      |
| H314                | Causes severe skin burns and eye damage. |
| H317                | May cause an allergic skin reaction.     |

#### Abbreviations and acronyms:

| ATE: Acute Toxicity Estimate  |
|---|
| CAS (Chemical Abstracts Service) number   |
| CLP: Classification, Labelling, Packaging.  |
| EC50: Environmental Concentration associated with a response by 50% of the test population. |
| GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).              |
| LD50: Lethal Dose for 50% of the test population  |
| STEL: Short Term Exposure Limits  |
| TWA: Time Weighted Average  |
| WEL: Workplace Exposure Limit   |
| European List of Waste (LoW) code   |

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

NFPA fire hazard

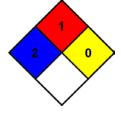
: 1 - Materials that must be preheated before ignition can

occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and not reactive with water.



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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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