

# SAFETY DATA SHEET

MEGA FIX IT HT  
According to EC Regulation 1907/2006/EC - revision 2015/830

Revision No. 4.2

Print Date 29/01/2019

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## SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product identifier

Product Name MEGA FIX IT HT  
Product Code 11001523M1 (CLP)

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

Recommended use  
Repairing compound.

### 1.3. Details of the supplier of the safety data sheet

NCH UK & Ireland, NCH House, Springvale Avenue, Bilston, WV14 0QL Tel (UK): 01902 510200, Tel (Ireland): 042 939 5502  
E-mail address technical\_uk@nch.com  
Website address www.ncheurope.com

### 1.4. Emergency telephone number

UK - 01902 510200 (available during Office Hours)  
In Republic of Ireland (available from 8am to 10pm daily): 01 809 2166

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations

Acute toxicity: Category 4  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled

### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Contains REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (MW < 700) & TRIETHYLENETETRAMINE & 2-PIPERAZIN-1-YLETHYLAMINE, May produce an allergic reaction.



Signal word Warning

#### Hazard Statements

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled

#### Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection.  
P261 - Avoid breathing vapors.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 - Call a POISON CENTER or doctor if you feel unwell  
Keep out of reach of children.  
For industrial and institutional use only.

### 2.3. Other hazards

No additional hazards identified.  
The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

## SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

| Chemical Name | CAS-No.  | EC No.    | EU - REACH reg number | Weight-% | EU - GHS/CLP Classification                | Notes |
|---------------|----------|-----------|-----------------------|----------|--|-------|
| PHENOL        | 108-95-2 | 203-632-7 | 01-2119471329-32      | < 1      | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311) |       |

|   |            |           |                  |       |   |
|---|------------|-----------|------------------|-------|---|
|   |            |           |                  |       | Acute Tox. 3 (H331)<br>Skin Corr. 1B (H314)<br>Muta. 2 (H341)<br>STOT RE 2 (H373)                                     |
| TRIETHYLENETETRAMINE  | 112-24-3   | 203-950-6 | -                | < 1   | Acute Tox. 4 (H312)<br>Skin Corr. 1B (H314)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 3 (H412)                        |
| REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (MW < 700) | 25068-38-6 | 500-033-5 | 01-2119456619-26 | < 1   | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 2 (H411)                        |
| BIS(2-ETHYLHEXYL) ADIPATE   | 103-23-1   | 203-090-1 | .                | < 1   | -   |
| 2-PIPERAZIN-1-YLETHYLAMINE  | 140-31-8   | 205-411-0 | 01-2119471486-30 | < 0.3 | Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Skin Corr. 1B (H314)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 3 (H412) |

For any H statements mentioned in this section, see the full text in section 16.

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Get medical attention immediately if symptoms occur.

#### Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

#### Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

#### Ingestion

Rinse mouth with water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

#### Inhalation

Remove from the area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Sensitisation

May cause sensitisation by skin contact.

#### Eye contact

May cause irritation as itching and redness.

#### Skin contact

May cause irritation as itching or redness.

#### Inhalation

Inhalation of mists may result in irritation to the respiratory tract.

### 4.3. Indication of any immediate medical attention and special treatment needed

#### Notes to physician

Treat symptomatically. Sensitiser. The effect of inhalation may be delayed.

## SECTION 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Water spray. Carbon dioxide (CO2). Dry powder. Foam.

**5.2. Special hazards arising from the substance or mixture**

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Halogenated compounds. Alkali metal oxides.

Material can create slippery conditions. Possibility of harm to the aquatic life. Avoid release into the environment.

**5.3. Advice for firefighters**

Firefighters should wear a self-contained breathing apparatus and full protective gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

**6.2. Environmental precautions**

Avoid release of neat product into surface water and sanitary sewage system. Prevent further leakage or spillage if safe to do so.

**6.3. Methods and material for containment and cleaning up**Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning up

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

Refer to sections 7, 8 and 13.

**SECTION 7. HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

Anyone with a history of skin sensitization to any of the substances in this product, should refrain from handling.

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

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.

**7.3. Specific end use(s)**

No information available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**Exposure limits

If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

| Chemical Name | European Union | The United Kingdom  | France  | Germany  | Austria   |
|---------------|----------------|---|---|--|---|
| PHENOL        |                | STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 7.8 mg/m <sup>3</sup><br>Skin | TWA: 2 ppm<br>TWA: 7.8 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 15.6 mg/m <sup>3</sup><br>Skin | AGW: 2ppm<br>AGW: 8mg/m <sup>3</sup><br>Skin<br>BGW: 120mg/g | Skin<br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup> |

| Chemical Name | Spain   | Portugal  | Italy   | The Netherlands                  | Switzerland  |
|---------------|---|---|---|----------------------------------|--|
| PHENOL        | Skin<br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup> | STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup><br>Skin | TWA: 2 ppm<br>TWA: 8.0 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>Skin | Skin<br>TWA: 8 mg/m <sup>3</sup> | Skin<br>STEL: 5 ppm<br>STEL: 19 mg/m <sup>3</sup><br>TWA: 5 ppm<br>TWA: 19 mg/m <sup>3</sup> |

| Chemical Name        | Denmark  | Finland   | Norway   | Sweden   | Czech   |
|----------------------|--|---|--|--|---|
| PHENOL               | TWA: 1 ppm<br>TWA: 4 mg/m <sup>3</sup><br>Skin | TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>Skin | TWA: 1 ppm<br>TWA: 4 mg/m <sup>3</sup><br>Skin | 1 ppm<br>4 mg/m <sup>3</sup><br>2 ppm<br>8 mg/m <sup>3</sup> | PEL: 7.5mg/m <sup>3</sup><br>NPK-P: 15mg/m <sup>3</sup> |
| TRIETHYLENETETRAMINE |  |   | TWA: 1 ppm                                     | 1 ppm  |   |

|  |  |  |                          |  |  |
|--|--|--|--------------------------|--|--|
|  |  |  | TWA: 6 mg/m <sup>3</sup> | 6 mg/m <sup>3</sup><br>2 ppm<br>12 mg/m <sup>3</sup> |  |
|--|--|--|--------------------------|--|--|

| Chemical Name             | Poland  | Ireland   |
|---------------------------|---|---|
| PHENOL                    | NDSch: 16 mg/m <sup>3</sup><br>NDS: 7.8 mg/m <sup>3</sup> | TWA: 2 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 16 mg/m <sup>3</sup><br>Skin |
| TRIETHYLENETETRAMINE      | NDSch: 3 mg/m <sup>3</sup><br>NDS: 1 mg/m <sup>3</sup>    |   |
| BIS(2-ETHYLHEXYL) ADIPATE | NDS: 400 mg/m <sup>3</sup>                                |   |

## 8.2. Exposure controls

### Engineering Measures

Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

### Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 14387 (organic vapours).

### Hand Protection

Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Short term use eg occasional contact or splash protection ;. Nitrile rubber (0.4 mm). PVC (0.7mm). Long term use eg continuous wear or immersion ;. Neoprene gloves (0.4 mm). For break through times, refer to glove manufacturers recommendations.

### Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

### General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Information below relates to typical values and does not constitute a specification.

|                                     |                           |                                 |                           |
|-------------------------------------|---------------------------|---------------------------------|---------------------------|
| <b>Appearance</b>                   | Metallic Light grey       | <b>Specific Gravity</b>         | 1.74                      |
| <b>Physical State</b>               | Solid                     | <b>Solubility</b>               | Insoluble in water        |
| <b>Odour</b>                        | Amine-like                | <b>Autoignition Temperature</b> | No information available. |
| <b>pH</b>                           | Not applicable.           | <b>Viscosity</b>                | Semi-Solid                |
| <b>Melting Point/Range</b>          | No information available. | <b>Explosive properties</b>     | No information available  |
| <b>Flash Point</b>                  | Not applicable.           | <b>Oxidizing Properties</b>     | No information available. |
| <b>Evaporation Rate</b>             | No information available. | <b>VOC Content (%)</b>          | < 1                       |
| <b>Flammability Limits in Air %</b> | No information available. |                                 |                           |
| <b>Vapor Pressure</b>               | No information available. |                                 |                           |
| <b>Vapor Density</b>                | No information available. |                                 |                           |

### 9.2. Other information

No other information available

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Not considered as highly reactive. See further information below.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Heat, flames, and sparks.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal storage conditions and use.

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Halogenated compounds. Alkali metal oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**Product Information

The product itself has not been tested.

| Chemical Name              | LD50 Oral            | LD50 Dermal             | LC50 Inhalation |
|----------------------------|----------------------|-------------------------|-----------------|
| PHENOL                     | = 340 mg/kg ( Rat )  | = 630 mg/kg ( Rabbit )  |                 |
| TRIETHYLENETETRAMINE       | = 2500 mg/kg ( Rat ) | = 550 mg/kg ( Rabbit )  |                 |
| BIS(2-ETHYLHEXYL) ADIPATE  | = 5600 mg/kg ( Rat ) | = 8410 mg/kg ( Rabbit ) |                 |
| 2-PIPERAZIN-1-YLETHYLAMINE | = 2140 mg/kg ( Rat ) | = 880 µL/kg ( Rabbit )  |                 |

Sensitisation

May cause sensitisation by skin contact.

Skin contact

May cause irritation as itching or redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract.

Eye contact

May cause irritation as itching and redness.

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

**SECTION 12. ECOLOGICAL INFORMATION****12.1. Toxicity**Product Information

The product itself has not been tested.

**Ecotoxicity effects**

Contains substance(s) known to be hazardous to the aquatic environment.

| Chemical Name             | Toxicity to Fish  | Water Flea  | Toxicity to Algae  |
|---------------------------|---|---|--|
| PHENOL                    | LC50 20.5 - 25.6 mg/L Pimephales promelas 96 h<br>LC50 = 32 mg/L Pimephales promelas 96 h<br>LC50 5.449 - 6.789 mg/L Oncorhynchus mykiss 96 h<br>LC50 7.5 - 14 mg/L Oncorhynchus mykiss 96 h<br>LC50 4.23 - 7.49 mg/L Oncorhynchus mykiss 96 h<br>LC50 = 27.8 mg/L Brachydanio rerio 96 h<br>LC50 = 0.00175 mg/L Cyprinus carpio 96 h<br>LC50 33.9 - 43.3 mg/L Oryzias latipes 96 h<br>LC50 23.4 - 36.6 mg/L Oryzias latipes 96 h<br>LC50 5.0 - 12.0 mg/L Oncorhynchus mykiss 96 h<br>LC50 = 13.5 mg/L Lepomis macrochirus 96 h<br>LC50 11.9 - 25.3 mg/L Lepomis macrochirus 96 h<br>LC50 = 11.5 mg/L Lepomis macrochirus 96 h<br>LC50 34.09 - 47.64 mg/L Poecilia reticulata 96 h<br>LC50 = 31 mg/L Poecilia reticulata 96 h | 4.24 - 10.7: 48 h Daphnia magna mg/L EC50 Static<br>10.2 - 15.5: 48 h Daphnia magna mg/L EC50 | EC50 = 46.42 mg/L Pseudokirchneriella subcapitata 96 h<br>EC50 0.0188 - 0.1044 mg/L Pseudokirchneriella subcapitata 96 h<br>EC50 187 - 279 mg/L Desmodesmus subspicatus 72 h |
| TRIETHYLENETETRAMINE      | LC50 = 570 mg/L Poecilia reticulata 96 h<br>LC50 = 495 mg/L Pimephales promelas 96 h  | 31.1: 48 h Daphnia magna mg/L EC50  | EC50 = 2.5 mg/L Desmodesmus subspicatus 72 h<br>EC50 = 20 mg/L Pseudokirchneriella subcapitata 72 h<br>EC50 = 3.7 mg/L Pseudokirchneriella subcapitata 96 h                  |
| BIS(2-ETHYLHEXYL) ADIPATE | LC50 0.48 - 0.85 mg/L Lepomis macrochirus 96 h<br>LC50 0.48 - 0.85 mg/L Oncorhynchus mykiss 96 h<br>LC50 0.48 - 0.85 mg/L Pimephales promelas 96 h  | 1.6: 48 h Daphnia magna mg/L EC50   | EC50 > 500 mg/L Desmodesmus subspicatus 72 h   |

|                            |  |                                  |  |
|----------------------------|--|----------------------------------|--|
|                            | LC50 54 - 150 mg/L Salmo gairdneri 96 h  |                                  |  |
| 2-PIPERAZIN-1-YLETHYLAMINE | LC50 1950 - 2460 mg/L Pimephales promelas 96 h<br>LC50 > 1000 mg/L Poecilia reticulata 96 h<br>LC50 >= 100 mg/L Oncorhynchus mykiss 96 h | 32: 48 h Daphnia magna mg/L EC50 | EC50 = 495 mg/L Pseudokirchneriella subcapitata 72 h |

**12.2. Persistence and degradability**

Persistence and degradability are substance specific, no test data is available on the constituents of this mixture to degrade or persist in the environment, either through biodegradation or other processes, such as oxidation or hydrolysis.

**12.3. Bioaccumulative potential**

Component information below.

| Chemical Name              | log Pow |
|----------------------------|---------|
| PHENOL                     | 1.47    |
| TRIETHYLENETETRAMINE       | -1.4    |
| BIS(2-ETHYLHEXYL) ADIPATE  | 8.114   |
| 2-PIPERAZIN-1-YLETHYLAMINE | -1.48   |

**12.4. Mobility in soil**

The product is insoluble and sinks in water.

**12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

**12.6. Other adverse effects**

No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal. Recycle according to official regulations.

EWC waste disposal No

The following EWC/ AVV waste codes may be applicable:

08 04 09\* Waste adhesives and sealants containing organic solvents or other dangerous substances

15 01 10\* packaging containing residues of or contaminated by dangerous substances

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

**SECTION 14. TRANSPORT INFORMATION****14.1, 14.2, 14.3, 14.4.**

Not classified for transport as dangerous goods

**14.5. Environmental hazards**

The mixture is not environmentally hazardous for transport

**14.6. Special precautions for user**

No special precautions.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Packaged product, not typically transported in IBC's.

**Additional information**

The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

**SECTION 15. REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

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**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out for this mixture by the supplier

**SECTION 16. OTHER INFORMATION****Text of H statements mentioned in Section 3**

H301 - Toxic if swallowed. H302 - Harmful if swallowed. H311 - Toxic in contact with skin. H312 - Harmful in contact with skin. H314 - Causes severe skin burns and eye damage. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H331 - Toxic if inhaled. H341 - Suspected of causing genetic defects. H373 - May cause damage to organs through prolonged or

repeated exposure. H411 - Toxic to aquatic life with long lasting effects. H412 - Harmful to aquatic life with long lasting effects.

**Prepared By** Pilar Ortiz

**Creation Date** 10/11/2015

**Revision Date** 21/01/2019

**Revision summary**

CLP update. Revised classification SDS sections updated 2 15 3 16

#### Abbreviations

REACH: Registration Evaluation Authorisation Restriction of Chemicals

EU: European Union

EC: European community

EEC: European Economic Community

UN: United Nations

CAS: Chemical Abstracts Service

PBT: Persistent Bioaccumulative Toxic

vPvB: very Persistent very Bioaccumulative

LC50: Lethal concentration, 50 percent

LD50 : Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

LogPow: LogP octanol/water

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)

WGK: Wassergefährdungsklasse (Water Hazard Class - Germany).

AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail)

EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods

ERG: Emergency Response Guidebook

IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances

GHS: Globally Harmonised System of classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Chemical

w/w: weight for weight

DMSO: Dimethyl sulphoxide

OECD: Organization for Economic Cooperation and Development

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

#### Further Information

Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

#### Disclaimer

The information provided on 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.

**End of Safety Data Sheet**