

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Article  
Trade name : Isomax 1  
Type of product : This product is an article under the REACH definition. As the Classification and labelling regulations (CLP) strictly applies to substances and mixtures it does not make provision for articles. However this product SDS and the defined labelling is provided voluntarily. As a duty of care to the user.

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : For industrial use within high temperature applications.

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer/Supplier

Alkegen (formerly Unifrax)  
Mill Lane, Rainford  
UK– WA11 8LP St Helens, Merseyside  
United Kingdom  
T + 44 (0) 1744 88 7600 - F + 44 (0) 1744 88 9916

##### Distributor

Alkegen (formerly Unifrax)  
Kleinreinsdorf 62  
DE– 07989 Teichwolframsdorf  
Germany  
T + 49 (0) 366 24 40020 - F + 49 (0) 366 24 40099

##### Distributor

Alkegen (formerly Unifrax)  
Shaftsbury Street  
DE23 8XA Derby  
United Kingdom  
T +44 (0) 1332 331808

##### Distributor

Alkegen (formerly Unifrax)  
Via Volonterio 19  
21047 Saronno (VA)  
Italy  
T +39 02 967 01 808 - F +39 02 962 5721

##### Email competent person

reachsds@alkegen.com

##### Distributor

Alkegen (formerly Unifrax)  
17 Rue Antoine Durafour  
42420 Lorette  
France  
T +33 (0) 477 737 032 - F +33 (0) 477 733 991

##### Distributor

Alkegen (formerly Unifrax)  
Ruská 311, Pozorka  
CZ– 417 03 Dubí 3  
Czech Republic  
T + 42 (0) 417 800 356 - F + 42 (0) 417 539 838

##### Distributor

Alkegen (formerly Unifrax)  
Cristobal Bordiu 20  
ES– 28003 Madrid  
Spain  
T + 34 91 395 2279 - F + 34 91 395 2124

#### 1.4. Emergency telephone number

Emergency number : Occupational Hygiene and CARE: Tel: + 44 (0) 1744 887603; Email: reachsds@alkegen.com; (8.15-17.10 h); Language : English

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Extra phrases : This product is an article and has not to be classified and labelled according to the current laws and regulations.

### 2.3. Other hazards

Other hazards which do not result in classification : May cause mechanical irritation to the skin, eyes and respiratory system.

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : Article  
All products contain AES wool (synthetic fibres, alkaline earth silicate, CAS 436083-99-7).  
90 - 95 %  
substance with national workplace exposure limit(s)  
Polyester < 5 %  
silicone emulsion < 5 %

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.  
First-aid measures after inhalation : Fibrous dust may be liberated when handling in use. If irritation to nose and throat, move to fresh air.  
First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
First-aid measures after ingestion : Ingestion unlikely.

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

Symptoms/effects after inhalation : mechanical irritation.  
Symptoms/effects after skin contact : mechanical irritation.  
Symptoms/effects after eye contact : mechanical irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : The product is not flammable. Use extinguishing media appropriate for surrounding fire.  
Foam. Dry powder. Carbon dioxide. Water spray.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Non flammable.  
Explosion hazard : Product is not explosive.  
Hazardous decomposition products in case of fire : None.

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### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Prevent fire fighting water from entering the environment.                                    |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

## SECTION 6: Accidental release measures

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

|                  |  |
|------------------|--|
| General measures | : Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes. |
|------------------|--|

#### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Concerning personal protective equipment to use, see section 8. |
| Emergency procedures | : Prohibit unauthorized persons.                                  |

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Ensure adequate ventilation. Concerning personal protective equipment to use, see section 8. |
| Emergency procedures | : Manipulations are to be done only by qualified and authorised persons.                       |

### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Mechanically recover the product. Minimise generation of dust. Dust can be vacuumed with a vacuum cleaner containing a HEPA (High Efficiency Particulate Air) filter. |
| Other information       | : Disposal must be done according to official regulations.  |

### 6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |  |
|-----------------------------------|--|
| Additional hazards when processed | : Extraction to remove dust at its source.   |
| Precautions for safe handling     | : Obtain special instructions before use. Use personal protective equipment as required. Ensure good ventilation of the work station. Do not eat, drink or smoke when using this product. Avoid dust formation. Do not breathe dust. Avoid contact with eyes. Clean contaminated areas thoroughly. |
| Hygiene measures                  | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.  |

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

|  |  |
|--|--|
| Storage conditions                                       | : Product must only be kept in the original packaging. Store tightly closed in a dry and cool place. |
| Information about storage in one common storage facility | : Keep away from food, drink and animal feeding stuffs.  |

### 7.3. Specific end use(s)

For professional users only. See Section 8.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

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| Isomax 1   |   |
|--|---|
| EU - Indicative Occupational Exposure Limit (IOEL) |   |
| Local name   | Man made vitreous fibers (MMVF)   |
| Remark   | The NOEL of $30 \times 10^6$ WHO-f/m <sup>3</sup> or $10 \times 10^6$ f with $l > 20 \mu\text{m}$ is used as the starting point to derive an OEL. Taking into account this well defined NOEL, a LOEL at fivefold higher concentrations, and the absence of a carcinogenic potential in long term inhalation studies allows to apply the small uncertainty factor of 3 resulting in the OEL of 10 f/ml ( $10 \times 10^6$ fibres /m <sup>3</sup> or 1 mg/m <sup>3</sup> ). (Year of adoption 2002) |
| Regulatory reference                               | SCOEL Recommendations   |
| United Kingdom - Occupational Exposure Limits      |   |
| Local name   | MMMF (Machine-made mineral fibre)   |
| WEL TWA (OEL TWA) [1]                              | 5 mg/m <sup>3</sup> (except for refractory ceramic fibres and special purpose fibres)   |
| WEL TWA (OEL TWA) [2]                              | 2 fibers/ml (except for refractory ceramic fibres and special purpose fibres)   |
| Regulatory reference                               | EH40/2005 (Fourth edition, 2020). HSE   |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

##### Eye protection:

In case of dust production: protective goggles

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Leather protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Dust formation: dust mask. (FFP2)

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

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### Other information:

Do not eat, drink or smoke when using this product. Do not take working clothes home. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately.

## SECTION 9: Physical and chemical properties

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

|   |                                  |
|---|----------------------------------|
| Physical state                                  | : Solid                          |
| Colour  | : white. Beige.                  |
| Odour   | : odourless.                     |
| Odour threshold                                 | : Not available                  |
| Melting point                                   | : > 1350 °C (Fibres)             |
| Freezing point                                  | : Not available                  |
| Boiling point                                   | : Not available                  |
| Flammability                                    | : Not available                  |
| Explosive properties                            | : Product is not explosive.      |
| Oxidising properties                            | : Non oxidizing.                 |
| Explosive limits                                | : Not applicable                 |
| Lower explosion limit                           | : Not applicable                 |
| Upper explosion limit                           | : Not applicable                 |
| Flash point                                     | : Not applicable                 |
| Auto-ignition temperature                       | : Not applicable                 |
| Decomposition temperature                       | : Not available                  |
| pH  | : Not specifically applicable    |
| pH solution                                     | : Not available                  |
| Viscosity, kinematic                            | : Not applicable                 |
| Solubility                                      | : Water: < 1 mg/l (Fibres)       |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                  |
| Vapour pressure                                 | : Not available                  |
| Vapour pressure at 50°C                         | : Not available                  |
| Density   | : 2.6 g/cm <sup>3</sup> (Fibres) |
| Relative density                                | : Not available                  |
| Relative vapour density at 20°C                 | : Not applicable                 |
| Particle size                                   | : Not available                  |
| Particle size distribution                      | : Not available                  |
| Particle shape                                  | : Not available                  |
| Particle aspect ratio                           | : Not available                  |
| Particle aggregation state                      | : Not available                  |
| Particle agglomeration state                    | : Not available                  |
| Particle specific surface area                  | : Not available                  |
| Particle dustiness                              | : Not available                  |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Other properties : Length weighted geometric mean diameter of fibres contained in the product: 1.9 - 6 µm

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

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### 10.4. Conditions to avoid

No additional information available.

### 10.5. Incompatible materials

None.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Do contain organics and on first heating can liberate VOCs.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |  |
|-----------------------------------|--|
| Acute toxicity (oral)             | : Not classified (Based on available data, the classification criteria are not met)                                    |
| Acute toxicity (dermal)           | : Not classified (Based on available data, the classification criteria are not met)                                    |
| Acute toxicity (inhalation)       | : Not classified (Based on available data, the classification criteria are not met)                                    |
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)<br>pH: Not specifically applicable |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)<br>pH: Not specifically applicable |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)                                    |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)                                    |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met)                                    |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)                                    |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)                                    |
| STOT-repeated exposure            | : Not classified (Based on available data, the classification criteria are not met)                                    |
| Aspiration hazard                 | : Not classified (Not relevant)  |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

#### 11.2.2. Other information

|                   |   |
|-------------------|---|
| Other information | : Irritant Properties<br>When tested using approved methods (Directive 67/548/EC, Annex V, Method B4), fibres contained in this material give negative results. Man made mineral fibres, can produce a mild irritation resulting in itching or rarely, in some sensitive individuals, in slight reddening. Unlike other irritant reactions this is not the result of allergy or chemical skin damage but is caused by a temporary mechanical effect.<br><br>Other Animal Studies<br>These materials have been designed to allow rapid clearance from lung tissue. And this low biopersistence has been confirmed in many studies on AES using EU protocol ECB/TM/27(rev 7).<br>When inhaled, even at very high doses, they do not accumulate to any level capable of producing a serious adverse biological effect. In lifetime chronic studies there was no exposure-related effect more than would be seen with any "inert" dust. |
|-------------------|---|

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met) |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met) |
| Not rapidly degradable                                    |   |

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### 12.2. Persistence and degradability

|                               |                 |
|-------------------------------|-----------------|
| <b>Isomax 1</b>               |                 |
| Persistence and degradability | Not applicable. |

### 12.3. Bioaccumulative potential

|                           |                 |
|---------------------------|-----------------|
| <b>Isomax 1</b>           |                 |
| Bioaccumulative potential | Not applicable. |

### 12.4. Mobility in soil

|                 |                 |
|-----------------|-----------------|
| <b>Isomax 1</b> |                 |
| Ecology - soil  | Not applicable. |

### 12.5. Results of PBT and vPvB assessment

|   |  |
|---|--|
| <b>Isomax 1</b>                               |  |
| PBT: not relevant – no registration required  |  |
| vPvB: not relevant – no registration required |  |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |  |
|--|--|
| Waste treatment methods                    | : Disposal must be done according to official regulations. European waste catalogue. |
| Sewage disposal recommendations            | : Do not allow into drains or water courses.   |
| Product/Packaging disposal recommendations | : Do not dispose of with domestic waste.   |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

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### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Other information, restriction and prohibition regulations

: This product is an article and has not to be classified and labelled according to the current laws and regulations. A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

#### REACH Annex XVII (Restriction List)

Not applicable.

#### REACH Annex XIV (Authorisation List)

Not applicable.

#### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available



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### SECTION 16: Other information

#### Abbreviations and acronyms:

|       |   |
|-------|---|
| ADN   | Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR   | Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008   |
| DNEL  | Derived-No Effect Level   |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Code for Dangerous Goods   |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006   |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail  |
| PBT   | Persistent Bioaccumulative Toxic  |
| vPvB  | Very Persistent and Very Bioaccumulative  |
| ATE   | Acute Toxicity Estimate   |
| BCF   | Bioconcentration factor   |
| DMEL  | Derived Minimal Effect level  |
| EC50  | Median effective concentration  |
| IARC  | International Agency for Research on Cancer   |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| LOAEL | Lowest Observed Adverse Effect Level  |
| NOAEC | No-Observed Adverse Effect Concentration  |
| NOAEL | No-Observed Adverse Effect Level  |
| NOEC  | No-Observed Effect Concentration  |
| OECD  | Organisation for Economic Co-operation and Development  |
| PNEC  | Predicted No-Effect Concentration   |
| SDS   | Safety Data Sheet   |
| STP   | Sewage treatment plant  |
| TLM   | Median Tolerance Limit  |

Data sources

: Information provided by the manufacturer. European Chemicals Agency,  
<http://echa.europa.eu/>.

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### Other information

: Occupational Hygiene: dawn.webster@alkegen.com.

#### . CARE PROGRAMME

ECFIA, representing the high temperature insulation wool (HTIW) industry, has undertaken an extensive industrial hygiene programme to provide assistance to the users of all products containing HTIW.

The objectives are twofold:

- to monitor workplace dust concentrations at both manufacturers' and customers' premises.
- to document manufacturing and use of HTIW products from an industrial hygiene perspective in order to establish appropriate recommendations to reduce exposures.

#### . PRECAUTIONARY MEASURES TO BE TAKEN AFTER SERVICE UPON REMOVAL

In almost all applications high temperature insulating wools products (HTIW) are used as an insulating material helping to maintain temperature at 900°C or more in a closed space. As produced, HTIW are vitreous (glassy) materials which, upon continued exposure to elevated temperatures (above 900 °C) might de-vitrify. The occurrence and extent of crystalline phase formation is dependent on the duration and temperature of exposure, fibre chemistry and/or the presence of fluxing agents. As only a thin layer of the insulation hot face side is exposed to high temperature, respirable dust generated during removal operations does not typically contain detectable levels of crystalline silica (CS).

In applications where the material is heat soaked, duration of heat exposure is normally short and a significant de-vitrification allowing CS to build up does not occur. This is the case for waste mould casting for instance.

Toxicological evaluation of the effect of the presence of CS in artificially heated HTIW material has not shown any increased toxicity in vitro and in vivo. The results from different combinations of factors like increased brittleness of fibres, or microcrystals embedded in the glass structure of the fibre and therefore not biologically available may explain the lack of toxicological effects.

IARC evaluation as provided in Monograph 68 is not relevant as CS is not biologically available in after service HTIW and respirable dust generated during removals operations generally do not contain detectable levels of crystalline silica..

High concentrations of fibres and other dusts may be generated when after-service products are mechanically disturbed during operations such as wrecking. Therefore ECFIA recommends:

- control measures are taken to reduce dust emissions; and
- all personnel directly involved wear an appropriate respirator to minimise exposure and comply with local regulatory limits.

### KFT SDS EU 06

The information presented on this SDS (1) provides details on material identity, manufacturer/supplier information, hazard characterization and prevention, emergency response and other specialized information, (2) is considered to be accurate to the best of our knowledge, information and good faith belief as of the date of publication, (3) is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release of the material named, (4) should be read and used in conjunction with the company's relevant literature, (5) relates only to the specific material designated and may not be valid for such material used in combination with any other material or process and (6) is provided without warranty, expressed or implied, in law or in fact, of merchantability or fitness for a particular purpose. This document does not constitute a product specification and should not be relied on as such. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product.