

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

### 1.1 Product identifier

Trade name: Airtac 3 Mega

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

General use: Temporary spray adhesive  
For industrial purposes only

Uses advised against: Flexible PVC due to the risk of plasticiser migration.

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

Company name:

Airtech International, Inc.  
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Huntington Beach, CA 92647  
E-mail: [airtech@airtechintl.com](mailto:airtech@airtechintl.com)  
Website: [www.airtechonline.com](http://www.airtechonline.com)  
Telephone: +1 714.899.8100  
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information:  
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Tygavac Advanced Materials Ltd.  
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Website: [www.airtech.asia](http://www.airtech.asia)  
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Department responsible for information:  
Telephone: +86 22 8862 9800  
E-mail: [airtech.asia@airtechasia.com.cn](mailto:airtech.asia@airtechasia.com.cn)

### 1.4 Emergency telephone number

**CHEMTREC EMERGENCY PHONE:**  
**Great Britain (London): +(44)-870-8200418**  
**International: +1 703-741-5970**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to EC regulation 1272/2008 (CLP)**

|                                     |                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Aerosol 1; H222; H229               | Extremely flammable aerosol. Pressurised container: May burst if heated.                                  |
| STOT SE 3; H336                     | May cause drowsiness or dizziness.                                                                        |
| Aquatic Chronic 2; H411<br>(EUH066) | Toxic to aquatic life with long lasting effects.<br>Repeated exposure may cause skin dryness or cracking. |

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**2.2 Label elements****Labelling (CLP)**

Signal word:

**Danger**

Hazard statements:

|        |                                                       |
|--------|-------------------------------------------------------|
| H222   | Extremely flammable aerosol.                          |
| H229   | Pressurised container: May burst if heated.           |
| H336   | May cause drowsiness or dizziness.                    |
| H411   | Toxic to aquatic life with long lasting effects.      |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Precautionary statements:

|           |                                                                                                |
|-----------|------------------------------------------------------------------------------------------------|
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211      | Do not spray on an open flame or other ignition source.                                        |
| P251      | Do not pierce or burn, even after use.                                                         |
| P261      | Avoid breathing spray.                                                                         |
| P273      | Avoid release to the environment.                                                              |
| P391      | Collect spillage.                                                                              |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.                               |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.                   |
| P501      | Dispose of contents/container to hazardous or special waste collection point.                  |

**Special labelling**

Text for labelling:

Contains  
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane  
n-Pentane

**2.3 Other hazards**

Heating will lead to pressure increase: Danger of bursting and explosion.  
In use, may form flammable/explosive vapour-air mixture.

Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterisation:

Mixture containing the substances listed below:

**SAFETY DATA SHEET**according to Regulation (EC) No. 1907/2006 (REACH) and  
Regulation (EU) No. 2015/830**Airtac 3 Mega**

Material number 1167

Revision date: 15/12/2020  
Version: 1.0  
Language: en-GB,IE  
Date of first version: 15/12/2020

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Hazardous ingredients:

| Ingredient                                                          | Designation                                                        | Content   | Classification                                                                                   |
|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|
| REACH 01-2119486291-36-xxxx<br>list no. 926-605-8<br>CAS 64742-49-0 | Hydrocarbons,<br>C6-C7,<br>isoalkanes,<br>cyclics,<br><5% n-hexane | 30 - 60 % | Flam. Liq. 2; H225. STOT SE 3; H336.<br>Asp. Tox. 1; H304.<br>Aquatic Chronic 2; H411. (EUH066). |
| EC No. 270-704-2<br>CAS 68476-85-7                                  | Petroleum<br>gases,<br>liquefied                                   | 10 - 30 % | Flam. Gas 1; H220. Liquef. Gas; H280.                                                            |
| REACH 01-2119459286-30-xxxx<br>EC No. 203-692-4<br>CAS 109-66-0     | n-Pentane                                                          | 5 - 10 %  | Flam. Liq. 1; H224. STOT SE 3; H336.<br>Asp. Tox. 1; H304.<br>Aquatic Chronic 2; H411. (EUH066). |

Full text of H- and EUH-statements: see section 16.

Additional information: Information about Petroleum gases, liquefied:  
Contains < 0.1 % 1,3-Butadiene. Here applies the note K.**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information: If medical advice is needed, have product container or label at hand.

In case of inhalation: Provide fresh air. Put victim at rest and keep warm. Seek medical attention.

Following skin contact: Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. Do not use solvents or thinners. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Danger of aspiration. Immediately get medical attention.

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

May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

After resorption: CNS disorders, unconsciousness, pain

Reaction time and coordination may be impaired.

**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:

Alcohol resistant foam, carbon dioxide, extinguishing powder

Extinguishing media which must not be used for safety reasons:

Full water jet

## 5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited. In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide

## 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: -

Container under pressure. Heating will lead to pressure increase: Danger of bursting and explosion.

Cool endangered containers with water spray and, if possible, remove from danger zone. Do not allow water used to extinguish fire to enter drains, ground or waterways.

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Keep unprotected people away. Evacuate area. Do not breathe vapour/aerosol. Avoid contact with skin and eyes. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

## 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion! In case of release, notify competent authorities.

## 6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information: Take precautionary measures against static discharges.

## 6.4 Reference to other sections

Refer additionally to section 8 and 13.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Advices on safe handling: Do not breathe vapour/aerosol.

Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.

Provide good ventilation and/or an exhaust system in the work area. Do not spray into eyes or onto the skin.

Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Forms explosive mixtures with air. Use only spark proof tools.  
Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep in a cool, well-ventilated place. Keep container dry.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Store containers in upright position.

Hints on joint storage: Do not store together with: Strong oxidizing agents, strong alkalis, strong acids

## 7.3 Specific end use(s)

No information available.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Occupational exposure limit values:

| CAS No.    | Designation                                            | Type                    | Limit value                            |
|------------|--------------------------------------------------------|-------------------------|----------------------------------------|
| 64742-49-0 | Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | Great Britain: WEL-TWA  | 1800 mg/m <sup>3</sup> (C5-C6 alkenes) |
| 68476-85-7 | Petroleum gases, liquefied                             | Great Britain: WEL-STEL | 2180 mg/m <sup>3</sup> ; 1250 ppm      |
|            |                                                        | Great Britain: WEL-TWA  | 1750 mg/m <sup>3</sup> ; 1000 ppm      |
|            |                                                        | Ireland: 15 minutes     | 2250 mg/m <sup>3</sup> ; 1250 ppm      |
|            |                                                        | Ireland: 8 hours        | 1800 mg/m <sup>3</sup> ; 1000 ppm      |
| 109-66-0   | n-Pentane                                              | Europe: IOELV: TWA      | 3000 mg/m <sup>3</sup> ; 1000 ppm      |
|            |                                                        | Great Britain: WEL-TWA  | 1800 mg/m <sup>3</sup> ; 600 ppm       |
|            |                                                        | Ireland: 8 hours        | 3000 mg/m <sup>3</sup> ; 1000 ppm      |

DNEL/DMEL:

Information about Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

DNEL workers, inhalative, systemic, long-term: 5,306 mg/m<sup>3</sup>  
DNEL workers, dermal, systemic, long-term: 13,964 mg/kg bw/d  
DNEL consumers, inhalative, systemic, long-term: 1,131 mg/m<sup>3</sup>  
DNEL consumers, dermal, systemic, long-term: 1,377 mg/kg bw/d  
DNEL consumers, oral, systemic, long-term: 1,301 mg/kg bw/d

Information about Pentane:

DNEL workers, inhalative, systemic, long-term: 3,000 mg/m<sup>3</sup>  
DNEL workers, dermal, systemic, long-term: 432 mg/kg bw/d  
DNEL consumers, inhalative, systemic, long-term: 643 mg/m<sup>3</sup>  
DNEL consumers, dermal, systemic, long-term: 214 mg/kg bw/d  
DNEL consumers, oral, systemic, long-term: 214 mg/kg bw/d

PNEC:

Information about Pentane:

PNEC water (freshwater): 230 µg/L  
PNEC water (marine water): 230 µg/L  
PNEC sewage treatment plant: 3,600 µg/L  
PNEC sediment (freshwater): 1.2 mg/kg dw  
PNEC sediment (marine water): 1.2 mg/kg dw  
PNEC soil: 0.55 mg/kg dw

## 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.  
Take precautionary measures against static discharges.

## Personal protection equipment

### Occupational exposure controls

**Respiratory protection:** Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Use filter type A (= against vapours of organic substances) according to EN 14387.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

**Hand protection:** Protective gloves according to EN 374.  
Glove material: PE/PA/PE - Layer thickness: > 0.06 mm  
Breakthrough time: > 480 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

**Eye protection:** Tightly sealed goggles according to EN 166.

**Body protection:** Protective clothing, solvent-resistant.

**General protection and hygiene measures:**  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Separate storage of work clothes. Do not breathe vapour/aerosol.  
When using do not eat, drink or smoke.  
Wash hands before breaks and after work.  
Take off contaminated clothing and wash it before reuse. Do not spray into eyes or onto the skin.

## Environmental exposure controls

Refer to "6.2 Environmental precautions".

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance:** Physical state at 20 °C and 101.3 kPa: liquid  
Form: Aerosol  
Colour: amber

**Odour:** hydrocarbons

**Odour threshold:** No data available

**pH:** 7 (solution, concentrated)

**Melting point/freezing point:** No data available

**Initial boiling point and boiling range:** 35 °C (n-Pentane)

**Flash point/flash point range:** ≤ -60 °C (propellant)

**Evaporation rate:** No data available

**Flammability:** Extremely flammable aerosol.

**Explosion limits:** LEL (Lower Explosion Limit): 1.40 Vol-% (propellant)  
UEL (Upper Explosive Limit): 10.90 Vol-% (propellant)

**Vapour pressure:** No data available

**Vapour density:** No data available

**Density:** at 20 °C: 0.80 g/mL (liquid)

**Water solubility:** insoluble

**Partition coefficient: n-octanol/water:** No data available

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Auto-ignition temperature: | No data available                             |
| Decomposition temperature: | No data available                             |
| Viscosity, dynamic:        | at 20 °C: 100 - 200 mPa*s (liquid)            |
| Explosive properties:      | Vapours can form explosive mixtures with air. |
| Oxidizing characteristics: | not oxidising                                 |

### 9.2 Other information

|                         |                   |
|-------------------------|-------------------|
| Additional information: | No data available |
|-------------------------|-------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Extremely flammable aerosol.  
Vapours can form explosive mixtures with air.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Pressurised container: May burst if heated.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 10.5 Incompatible materials

Strong oxidizing agents, strong acids, alkalis

### 10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

Thermal decomposition: No data available



## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

### Symptoms

In case of inhalation: Narcotic effect in case of higher doses or prolonged exposure. Product may cause headaches, dizziness or troubles of the central nervous system. chest pressure, chest pain, cough. Leads to unconsciousness in high concentrations.

In case of ingestion: Dizziness, headache, weakness. intoxication. Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

After contact with skin: Upon direct contact with skin may cause itching and redness.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Information about Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

Fish toxicity:

LL50 Oncorhynchus mykiss: 12 mg/L/96h (OECD 203)

NOEL Oncorhynchus mykiss: 4 mg/L/96h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 17.06 mg/L/48h (QSAR)

NOELR Daphnia magna (Big water flea): 3.818 mg/L/21d (QSAR)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae), growth rate: 55 mg/L/72h (OECD 201)

EL50 Pseudokirchneriella subcapitata (green algae), biomass: 26 mg/L/72h (OECD 201)

NOEL Pseudokirchneriella subcapitata (green algae): 30 mg/L/72h (OECD 201)

### 12.2 Persistence and degradability

Further details: No data available



### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 16 05 04\* = Gases in pressure containers (including halons) containing hazardous substances/Aerosol

\* = Evidence for disposal must be provided.

Recommendation: Do not open with force or incinerate, even when empty.  
Dispose of waste according to applicable legislation. Do not dispose of with household waste. This material and its container must be disposed of as hazardous waste.

#### Contaminated packaging

Waste key number: 15 01 10\* = Packaging containing residues of or contaminated by dangerous substances  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Empty carefully and completely, if possible. Handle empty containers with care.  
Incineration may cause explosion.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 1950

### 14.2 UN proper shipping name

ADR/RID, IMDG: UN 1950, AEROSOLS

IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

**14.3 Transport hazard class(es)**

ADR/RID: Class 2, Code: 5F  
IMDG: Class 2, Subrisk -, see SP63  
IATA-DGR: Class 2.1

**14.4 Packing group**

ADR/RID, IATA-DGR: not applicable  
IMDG: -

**14.5 Environmental hazards**

Marine pollutant: yes

**14.6 Special precautions for user****Land transport (ADR/RID)**

Warning board: RID: Kemmler-number 23, UN number UN 1950  
Hazard label: 2.1  
Special provisions: 190 327 344 625  
Limited quantities: 1 L  
EQ: E0  
Contaminated packaging - Instructions: P207 LP200  
Contaminated packaging - Special provisions:  
PP87 RR6 L2  
Special provisions for packing together: MP9  
Tunnel restriction code: D

**Sea transport (IMDG)**

EmS: F-D, S-U  
Special provisions: 63, 190, 277, 327, 344, 381, 959  
Limited quantities: See SP277  
Excepted quantities: E0  
Contaminated packaging - Instructions: P207, LP200  
Contaminated packaging - Provisions: PP87, L2  
IBC - Instructions: -  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: -  
Tank instructions - Provisions: -  
Stowage and handling: SW1 SW22  
Segregation: SG69  
Properties and observations: -  
Segregation group: none

**Air transport (IATA)**

Hazard label: Flamm. gas  
Excepted Quantity Code: E0  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G  
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg  
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg  
Special provisions: A145 A167 A802  
Emergency Response Guide-Code (ERG): 10L

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available



**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**Hazchem-Code: -  
No data available**National regulations - EC member states**Volatile organic compounds (VOC):  
max. 548 g/L**Labelling of packaging with ≤ 125mL content**Signal word: **Danger**

|                    |        |                                                       |
|--------------------|--------|-------------------------------------------------------|
| Hazard statements: | H222   | Extremely flammable aerosol.                          |
|                    | H229   | Pressurised container: May burst if heated.           |
|                    | EUH066 | Repeated exposure may cause skin dryness or cracking. |

|                           |           |                                                                                                |
|---------------------------|-----------|------------------------------------------------------------------------------------------------|
| Precautionary statements: | P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|                           | P211      | Do not spray on an open flame or other ignition source.                                        |
|                           | P251      | Do not pierce or burn, even after use.                                                         |
|                           | P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.                   |

Further regulations, limitations and legal requirements:  
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P3a, E2  
Use restriction according to REACH annex XVII, no.: 3, 40

**15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.

**SECTION 16: Other information****Further information**

Wording of the H-phrases under paragraph 2 and 3:

H220 = Extremely flammable gas.  
H222 = Extremely flammable aerosol.  
H224 = Extremely flammable liquid and vapour.  
H225 = Highly flammable liquid and vapour.  
H229 = Pressurised container: May burst if heated.  
H280 = Contains gas under pressure; may explode if heated.  
H304 = May be fatal if swallowed and enters airways.  
H336 = May cause drowsiness or dizziness.  
H411 = Toxic to aquatic life with long lasting effects.  
EUH066 = Repeated exposure may cause skin dryness or cracking.

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and  
Regulation (EU) No. 2015/830

### Airtac 3 Mega

Material number 1167

Revision date: 15/12/2020  
Version: 1.0  
Language: en-GB,IE  
Date of first version: 15/12/2020

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#### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
OEL: Occupational Exposure Limit Value  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
CNS: Central Nervous System  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EL50: Effective loading rate 50%  
EN: European Standard  
EU: European Union  
IATA: International Air Transport Association  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
NOEL: No Observed Effect Level  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
QSAR: Quantitative Structure-Activity Relationship  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
STOT SE: Specific target organ toxicity - single exposure  
TLV: Threshold Limit Value  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit  
CNS: Central Nervous System

#### Department issuing data sheet

Contact person: see section 1: Department responsible for information

This data sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, and which additional precautions may be necessary. All health and safety information contained in this data sheet should be provided to your employees and customers. It is your responsibility to develop appropriate workplace instructions and training programmes for employees.

As the conditions and methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. All statements or suggestions are made without warranty, expressed or implied, regarding accuracy of information, the hazards connected with the use of the product or the results to be obtained from the use thereof.