



MATERIAL SAFETY DATA SHEET

AROXA™ BEER FLAVOUR STANDARDS

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| Document code | BE-MSDS-EN |
| Version number | 3 |
| Issue date | 11 March 2015 |

Section 1: Product and company.

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| Product: | AROXA™ Beer Flavour Standards |
| Product codes: | BE-105-57-7, BE-64-19-7, BE-75-07-0, BE-1122-62-9, BE-100-52-7, BE-431-03-8, BE-107-92-6, BE-95-56-7, BE-77-92-9, BE-CONTROL, BE-23696-85-7, BE-87-65-0, BE-624-92-0, BE-75-18-3, BE-3658-80-8, BE-141-78-6, BE-105-54-4, BE-18368-91-7, BE-123-66-0, BE-101-97-3, BE-97-53-0, BE-7782-63-0, BE-23333-91-7, BE-106-24-1, BE-90-05-1, BE-4313-03-5, BE-928-96-1, BE-8007-04-3-HO, BE-7783-06-4, BE-120-72-9, BE-123-92-2, BE-1333-58-0, BE-78-84-2, BE-24683-00-9, BE-25773-40-4, BE-247-072-1, BE-503-74-2, BE-8007-04-3-KH, BE-38462-22-5, BE-79-33-4, BE-75-08-01, BE-3268-49-3, BE-2371-42-8, BE-5287-45-6, BE-1534-08-3, BE-18829-56-6, BE-124-07-2, BE-144-55-8, BE-7647-14-5, BE-100-42-5, BE-56038-13-2, BE-7757-83-7, BE-607-99-8, BE-87-40-1, BE-121-33-5, BE-7786-61-0, BE78-70-6, BE-19872-52-7 |
| Manufacturer: | Cara Technology Limited |
| Address: | Cara Technology Limited Leatherhead Enterprise Centre Randalls Road Leatherhead Surrey KT22 7RY UK |
| Emergency phone: | +44 1372 822 218 |
| Fax: | +44 1372 821 599 |
| Email: | aroxa@cara-online.com |
| Product use: | Used to develop flavour recognition and scaling skills in beer tasters. |

Section 2: Composition/information on ingredients.

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| Ingredients: | Sucrose, modified starch, flavouring. |
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Section 3: Hazards identification.

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| Hazards: | There are no hazards associated with the use of AROXA™ Beer Flavour Standards when used as directed. These standards do not contain any substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC. |
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Section 4: First aid measures.

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| Eyes: | In case of eye contact, immediately irrigate with copious amounts of fresh water. |
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Section 5: Fire-fighting measures.

Extinguishing media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Section 6: Accidental release measures.

Accidental release measures: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Observe all federal, state and local laws.

Section 7: Handling and storage.

Handling and storage Store in cool dry place at <30°C. Do not freeze.

Section 8: Exposure controls/personal protection.

Engineering controls: No specific measures necessary.

Respiratory protection: Avoid inhalation of dust.

Eye protection: Avoid contact with eyes.

Skin protection: No specific measures necessary.

Other protective clothing or equipment: No specific measures necessary.

Section 9: Physical and chemical properties.

Appearance: White crystalline, free flowing powder.

Odour: No odour or a faint flavour-specific odour.

Physical state: Flavours are presented in the form of pre-weighed powder in capsules.

Solubility: Freely soluble in water.

Section 10: Stability and reactivity.

Stability: Stable.

Incompatibility (material to avoid): Strong oxidizing agents.

Hazardous combustion or decomposition products: Carbon monoxide, carbon dioxide.

Hazardous polymerization: Hazardous polymerization will not occur.

Section 11: Toxicological information.

Toxicological information: Sucrose
Oral-rat LD: 29700 mg/kg
Txapa9: 7,609,1965
Ipr-mus LD: 14000 mg/kg

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Pcjoau: 15,139,1981

Section 12: Ecological information.

Ecological information: No relevant studies identified.

Section 13: Disposal considerations.

Waste disposal method: Standard waste disposal.

RCRA hazard class: None.

Section 14: Transport information.

Transport information: No precautions needed.

Section 15: Regulatory information.

Risk phrases: This product is not classified according to the EU regulations.

Section 16: Other information.

Revision date: This MSDS was revised on 11 March 2015.

Other information: Flavours are presented in the form of pre-weighed powder in gelatine capsules. They comply with the recommendations of both the American Society of Brewing Chemists and the European Brewery Convention.

Preparation information: Dissolve the contents of one capsule in one litre of beer or water.

Disclaimer: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide.