

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier:

| | |
|------------------------|----------------|
| Product Name | Vicant SB |
| CAS No. | Not applicable |
| EC No. | Not applicable |
| REACH Registration No. | Not applicable |

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

| | |
|----------------------|------------------|
| Identified Use(s) | Beer Antioxidant |
| Uses Advised Against | None identified |

1.3 Details of the Supplier of the Safety Data Sheet:

| | |
|-------------------------|--|
| Company Identification | Lallemand UK Ltd |
| Address of Manufacturer | AB Vickers, Dallow Street, Burton on Trent |
| Postal code | DE14 2PQ |
| Telephone: | +44 (0)1283563268 |
| E-mail | abvickers@lallemand.com (only checked during office hours) |
| Office hours | 09:00 to 17:00, Monday to Friday, UK |

1.4 Emergency Telephone Number:

++44 (0)1283563268 (office hours only as above)

SECTION 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification: According to Regulation (EC) No. 1272/2008 (CLP).
Eye Dam. 1; H318

2.2 Label elements

Labelling according to regulation (EC) No.1272/2008 (CLP)

Hazard Pictograms:



GHS05

Signal Word: Danger

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

Hazard Statements: H318: Causes serious eye damage

Precautionary Statements

P264: Wash contacted skin thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Supplemental Hazard information (EU)
EUH031 Contact with acids liberates toxic gas.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2.4 Additional Information

For full text of H/ P phrases see Section 16

SECTION 3. Composition / Information on Ingredients

3.2 Mixtures:

This mixture contains substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, and assigned a Community Workplace Exposure Limit (WEL), classified as PBT/vPvB or included in the Candidate List. See Section 8 for OELs

| Hazardous ingredients | CAS No | EC No | CLP Classification | w/w% |
|-----------------------|-----------|-----------|--------------------------------------|------|
| Sodium metabisulphite | 7681-57-4 | 231-673-0 | Acute Tox. 4; Eye Dam. 1; H302, H318 | >10% |

SECTION 4 First Aid Measures

4.1 Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get Medical attention if any discomfort continues.
Ingestion: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Skin contact: Wash off with soap and plenty of water.
Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: Causes serious eye damage

4.3 Indication of any immediate medical attention and special treatment needed

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

No data available

SECTION 5 Firefighting Measures

5.1 Extinguishing media:

Suitable extinguishing media: water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media: None identified

5.2 Special hazards arising from the substance or mixture:

Carbon oxides, sodium oxides, Sulphur oxides

5.3 Advice for fire-fighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear full personal protection during removal of spillages. Avoid dust formation. Avoid breathing dust/fumes.

6.2 Environmental precautions:

Do not let product enter drains

6.3 Method and materials for containment and cleaning up:

Contain spillage, pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Place in closed container for disposal according to local regulations.

6.4 Reference to other sections:

See also Section 8 and Section 13.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of dust.

7.2 Conditions for safe storage, including any incompatibilities:

Store in tightly closed original container in a dry, well-ventilated place.

7.3 Specific end use(s)

Beer antioxidant

SECTION 8 Exposure Controls / Personal Protection

8.1 Control parameters:

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

| Occupational Exposure Limit (EH40/2005) | | | | | | |
|---|-----------|----------------------|-------------------------------------|------------|---------------------------|------|
| Substance | CAS # | LTEL (8 Hr. TWA ppm) | LTEL (8 Hr. TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
| Sodium metabisulphite | 7681-57-4 | | 5 | | | |

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Ensure that eyewash stations and safety showers are close to the workstation location.

8.2.2 Personal protection equipment:

8.2.2.1 Eyes and face protection: Safety goggles with side protection or full face visor, (EN166).

8.2.2.2 Skin protection: Hands protection: During processing chemical resistant gloves should be worn, (EN374).

8.2.2.3 Respiratory protection: Not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

| | |
|--|-------------------|
| Appearance: | powder |
| Colour: | white/yellow |
| Odour: | sharp odour |
| Viscosity: | not applicable |
| Density: | no data available |
| Solids Content: | 100% |
| Flash Point: | no data available |
| Initial Boiling Point and Boiling Range: | not applicable |
| Solubility in Water: | soluble |
| Vapour Pressure: | no data available |
| Vapour Density: | no data available |
| Auto Ignition Temperature: | no data available |
| Evaporation Rate: | no data available |
| Decomposition Temperature: | No data available |
| Explosive Properties: | No data available |

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

| | |
|---|-------------------|
| Upper/Lower Flammability or Explosive Limits: | no data available |
| Oxidising Properties: | No data available |
| pH: | No data available |

9.2 Other Information

None.

SECTION 10 Stability and Reactivity

10.1 Reactivity:

Stable under normal conditions

10.2 Chemical stability:

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions:

No hazardous reactions are known under normal conditions of use

10.4 Conditions to avoid:

No data available

10.5 Incompatible materials:

Strong acids, strong oxidizing agents.

10.6 Hazardous decomposition products

If burning: sulphur oxides, sodium oxides, carbon oxides

SECTION 11 Toxicological Information

11.1 Information on toxicological effects

| | |
|--------------------------------|----------------------------|
| Acute toxicity - Ingestion | Not classified. |
| Acute toxicity - Skin Contact | Not classified. |
| Acute toxicity - Inhalation | Not classified. |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Risk of serious eye damage |
| Skin sensitization data | Not classified. |
| Respiratory sensitization data | Not classified. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not classified. |
| Reproductive toxicity | Not classified. |
| Lactation | Not classified. |
| STOT - single exposure | Not classified |
| STOT - repeated exposure | Not classified. |
| Aspiration hazard | Not classified. |

11.2 Other information

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

| | |
|---------------|--|
| Inhalation: | In high concentrations, vapours may irritate throat and respiratory system and cause coughing. |
| Skin Contact: | There may be mild irritation |
| Eye Contact: | Risk of serious eye irritation. |
| Ingestion: | May cause discomfort if swallowed |

SECTION 12 Ecological Information

12.1 Toxicity:

| | |
|------------------------------------|-----------------|
| Toxicity - Aquatic invertebrates | Not classified |
| Toxicity - Fish | Not classified |
| Toxicity - Algae | Not classified |
| Toxicity - Sediment Compartment | Not classified. |
| Toxicity - Terrestrial Compartment | Not classified. |

12.2. Persistence and degradability

Not known

12.3. Bio-accumulative potential

Not known.

12.4. Mobility in soil

Not known

12.5. Results of PBT and vPvB Assessment

No data available

12.6. Other adverse effects

Not known

SECTION 13 Disposal Considerations

13.1. Waste treatment methods

Disposal in accordance with local Waste Disposal Authority.

13.2 Additional information

Disposal should be in accordance with local, state or national legislation.

SECTION 14 Transport Information

ADR/RID/ADN

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

| | | |
|------|----------------------------------|-----|
| 14.1 | UN Number | N/A |
| 14.2 | UN Proper shipping name | N/A |
| 14.3 | Transport hazard class(es) | N/A |
| 14.4 | Packing group | N/A |
| 14.5 | Environmental hazards | N/A |
| 14.6 | Special precautions for the user | N/A |

IATA/ICAO

| | | |
|------|----------------------------------|-----|
| 14.1 | UN Number | N/A |
| 14.2 | UN Proper shipping name | N/A |
| 14.3 | Transport hazard class(es) | N/A |
| 14.4 | Packing group | N/A |
| 14.5 | Environmental hazards | N/A |
| 14.6 | Special precautions for the user | N/A |

IMDG

| | | |
|------|--|-----|
| 14.1 | UN Number | N/A |
| 14.2 | UN Proper shipping name | N/A |
| 14.3 | Transport hazard class(es) | N/A |
| 14.4 | Packing group | N/A |
| 14.5 | Environmental hazards | N/A |
| 14.6 | Special precautions for the user | N/A |
| 14.7 | Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | N/A |

SECTION 15 Regulatory Information

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

Not applicable

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended by 830/2015. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this mixture by the supplier.

SECTION 16 Other Information

LEGEND

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

Hazard Pictograms:



GHS05

Hazard Statements:

H318: Causes serious eye damage

Precautionary Statements

P264: Wash contacted skin thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor

Abbreviations:

CAS: Chemical Abstracts Service;

EINECS: European Inventory of Existing Commercial Chemical Substances

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

References:

Supplier's Safety Data Sheets for ingredients

ECHA REACH dossiers

Approved Classification and Labelling Guide

Regulation (EC) No. 1272/2008 of the European Parliament and of the council.

Version history:

| | |
|---|------------|
| Version: | 5 |
| Issue date: | 22/11/2016 |
| Previous version: | 4 |
| Issue date of previous version: | 01-10-13 |
| Sections changed from previous version: | 1-16 |

Disclaimer

The information in this safety data sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 as amended by 2015/830

No responsibility or liability, expressed or implied, can be accepted for any problems which may arise as a result of any actions or decisions that may be taken by the user, or by any other party that may be involved with specifying or using the material.