

DULASE P

Page: 1

Compilation date: 04/07/2013

Revision date: 23/09/2020

Revision No: 3

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: DULASE P
Product code: DULASEP

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

Use of substance / mixture: Beverage Processing Aids and Other Usages

1.3. Details of the supplier of the safety data sheet

Company name: Murphy and Son Ltd

Murphy & Son Ltd

Alpine St, Old Basford

Nottingham

NG6 0HQ

United Kingdom

Tel: (+44) 115 978 5494

Email: technical@murphyandson.co.uk

1.4. Emergency telephone number

Emergency tel: (+44) 115 978 5494

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Resp. Sens. 1: H334

Most important adverse effects: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

Label elements:

Hazard statements: H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Hazard pictograms: GHS08: Health hazard



Signal words: Danger

Precautionary statements: P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P285: In case of inadequate ventilation wear respiratory protection.

P304+P341: IF INHALED: if breathing is difficult, remove victim to fresh air and keep at

DULASE P

Page: 2

rest in a position comfortable for breathing.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P501: Dispose of contents and container to hazardous or special waste collection point,

in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

CELLULASE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
232-734-4	9012-54-8	-	Resp. Sens. 1: H334	10-30%

AMYLASE, ALPHA-

232-565-6	9000-90-2	_	Resp. Sens. 1: H334	10-30%
202-000-0	3000-30-2		11004	10-0070

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and

footwear immediately unless stuck to skin. Obtain medical attention if ill effect or

irritation develops

Eye contact: Bathe the eye with running water for 15 minutes. Obtain medical attention if pain,

blinking, tears or redness persist.

Ingestion: Wash out mouth with water. Seek medical attention if ill effect develops

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If

conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Obtain medical attention if breathing difficulty and / or other

complaints appear

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

Skin contact: There may be redness or whiteness of the skin in the area of exposure.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat. There may be shortness of breath due to congestion

of the lungs.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs

causing severe shortness of breath. The effect of inhalation may be delayed.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

DULASE P

Page: 3

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray

to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: If outside do not approach from downwind. Do not attempt to take action without suitable

protective clothing - see section 8 of SDS. Do not create dust.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes

or gas.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Use mechanical handling equipment. Avoid generation and spreading of dust. Transfer

to a closable, labelled salvage container for disposal by an appropriate method. Wash

the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is exhaust ventilation of the area. Avoid the formation or spread of dust in

the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): Beverage Processing Aids and Other Usages

DULASE P

Page: 4

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be used in handling. Respiratory protective

device with particle filter. Particle filter class P3S (EN143).

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder

Colour: Off-white

Odour: Characteristic odour

Evaporation rate: Not applicable.

Oxidising: Not applicable.

Solubility in water: Soluble

Viscosity: Not applicable.

Boiling point/range°C: Not applicable. Melting point/range°C: Not applicable.

Flammability limits %: lower: Not applicable. upper: Not applicable.

Flash point°C: Not applicable. Part.coeff. n-octanol/water: Not applicable.

Autoflammability°C: Not applicable. Vapour pressure: Not applicable.

Relative density: No data available. pH: Not applicable.

VOC g/I: Not applicable.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

DULASE P

Page: 5

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: None known

10.5. Incompatible materials

Materials to avoid: None Known

10.6. Hazardous decomposition products

Haz. decomp. products: None Known

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

AMYLASE, ALPHA-

ORAL	MUS	LD50	>15	g/kg
ORAL	RAT	LD50	>17500	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Respiratory/skin sensitisation	INH	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be redness or whiteness of the skin in the area of exposure.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat. There may be shortness of breath due to congestion

of the lungs.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs

causing severe shortness of breath. The effect of inhalation may be delayed.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

Other information: May cause allergic respiratory reaction.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

DULASE P

Page: 6

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose in a safe manner in accordance with local/national regulations.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Legend to abbreviations: PNEC = predicted no effect concentration

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

LDLO = lethal dose low

EC50 = median effective concentration

DULASE P

Page: 7

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

IPR = intraperitoneal

SCU = subcutaneous

ORL = oral

SKN = skin

DRM = dermal

OCC = ocular/corneal

OPT = optical

ING = ingestion

INH = inhalation

PCP = physico-chemical properties

Legal 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. This company shall not be held liable for any damage resulting from handling or from contact with the above product.