#### SAFETY DATA SHEET

# Beal 50g Stud & Bearing (LS3)

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

#### 1.1. Product identifier

Trade name

Beal 50g Stud & Bearing (LS3)

Product no.

301278

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

Relevant identified uses of the substance or mixture

Anaerobic adhesive

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Beal UK Ltd Sterling Works, Texas Street, Tingley Leeds LS27 OHG t: 0113 253 8888 f: 0800 357 650 e-mail: quality@beal.org.uk www.beal.org.uk

## Revision

19/06/2024

**SDS Version** 

1.0

# 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

## SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.1. Classification of the substance or mixture

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Dam. 1; H318, Causes serious eye damage.

STOT SE 3; H335, May cause respiratory irritation.

## 2.2. Label elements

# Hazard pictogram(s)



# Signal word

Danger

## Hazard statement(s)

Causes severe skin burns and eye damage. (H314) May cause an allergic skin reaction. (H317) May cause respiratory irritation. (H335)

#### Precautionary statement(s)

#### General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

## Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

#### Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . (P303+P361+P353) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

#### Storage

Store locked up. (P405)

#### Disposal

Dispose of contents/container in accordance with local regulation (P501)

#### Hazardous substances

2,2'-ethylenedioxydiethyl dimethacrylate Methacrylic acid, monoester with propane-1,2-diol acrylic acid;prop-2-enoic acid 2'-phenylacetohydrazide

## Additional labelling

Not applicable.

#### 2.3. Other hazards

#### Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable. This product is a mixture.

## 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
2,2'-ethylenedioxydiethyl dimethacrylate	CAS No.: 109-16-0 EC No.: 203-652-6 UK-REACH: EURO 01-2119969287-21-XXXX Index No.:	60-80%	Skin Sens. 1B, H317	
Methacrylic acid, monoester with propane-1,2-diol	CAS No.: 27813-02-1 EC No.: 248-666-3 UK-REACH: EURO 01-2119490226-37-XXXX Index No.:	10-15%	Skin Sens. 1, H317 Eye Irrit. 2, H319	
acrylic acid;prop-2-enoic acid	CAS No.: 79-10-7 EC No.: 201-177-9 UK-REACH: EURO 01-2119452449-31-XXXX Index No.: 607-061-00-8	10-15%	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Acute Tox. 4, H332 STOT SE 3, H335 (SCL: 1.00 %) Aquatic Acute 1, H400 (M=1)	[1]
2'-phenylacetohydrazide	CAS No.: 114-83-0 EC No.: 204-055-3 UK-REACH:	<1%	Acute Tox. 3, H301 Skin Irrit. 2, H315 Skin Sens. 1, H317	

	Index No.:		Eye Irrit. 2, H319 STOT SE 3, H335
N,N-dimethyl-o-toluidine;N,N-	CAS No : 99-97-8	<1%	Acute Tox. 3, H301
dimethyl-p-toluidine;N,N-	EC No.: 202-805-4	<b>\170</b>	Acute Tox. 3, H311
dimethyl-m-toluidine	UK-REACH:		Acute Tox. 3, H331
anneany. In column	Index No.: 612-056-00-9		STOT RE 2, H373
			Aquatic Chronic 3, H412

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[1] European occupational exposure limit.

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2)

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

#### SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

## 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.

The product should be tested for peroxide formation or discarded after 6 months.

Avoid direct contact with the product.

Peroxide formation may be present anywhere in the container, including the sides, bottom, exterior and threaded cap. Peroxide formation in ppm concentrations may not be visually observable and must be identified through the use of appropriate testing procedures. If any of the following conditions exist, the material may be explosively unstable and will require stabilization prior to use: 1.

Material appears to be degraded and or contaminated.

- 2. Material appears to be discolored.
- 3. Deterioration or distortion of storage container.
- 4. Thermal shock (sunlight).
- 5. Age of material exceeds recommended storage time.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## Recommended storage material

Keep only in original packaging.

Storage temperature

Dry, cool and well ventilated

Incompatible materials

Strong acids

## Strong oxidizing agents

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

acrylic acid;prop-2-enoic acid

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m³): 29 Short term exposure limit (15 minutes) (ppm): 20 (1 min.)

Short term exposure limit (15 minutes) (mg/m³): 59 (1 min.)

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### **DNEL**

2,2'-ethylenedioxydiethyl dimethacrylate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	8.33 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	13.9 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	14.5 mg/m³
Long term – Systemic effects - Workers	Inhalation	48.5 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	8.33 mg/kg bw/day

	1.					
acrv	VIIC	acid:	pro	D-2-6	enoic	acıd
	,					

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	3.6 mg/m³
Long term – Local effects - Workers	Inhalation	30 mg/m³
Long term – Systemic effects - General population	Inhalation	3.6 mg/m³
Long term – Systemic effects - Workers	Inhalation	30 mg/m³
Short term – Local effects - General population	Inhalation	3.6 mg/m³
Short term – Local effects - Workers	Inhalation	30 mg/m³
Short term – Systemic effects - General population	Inhalation	3.6 mg/m³
Short term – Systemic effects - Workers	Inhalation	30 mg/m³
Long term – Systemic effects - General population	Oral	400 μg/kgbw/day
Short term – Systemic effects - General population	Oral	1.2 mg/kg bw/day

# Methacrylic acid, monoester with propane-1,2-diol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	4.2 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	4.35 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	14.7 mg/m³
Long term – Systemic effects - General population	Oral	2.5 mg/kg bw/day

# **PNEC**

2,2'-ethylenedioxydiethyl dimethacrylate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		16.4 μg/L
Freshwater sediment		185 μg/kg
Intermittent release (freshwater)		16.4 μg/L

Marine water		1.64 μg/L
Marine water sediment		18.5 μg/kg
Sewage treatment plant		1.7 mg/L
Soil		27.4 μg/kg
acrylic acid;prop-2-enoic acid		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3 μg/L
Freshwater sediment		23.64 µg/kg
Intermittent release (freshwater)		1.3 μg/L
Marine water		300 ng/L
Marine water sediment		2.364 µg/kg
Predators		30 mg/kg
Sewage treatment plant		900 μg/L
Soil		1 mg/kg
Methacrylic acid, monoester with propane-1,2-diol		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		904 μg/L
Freshwater sediment		6.28 mg/kg
Intermittent release (freshwater)		972 μg/L
Marine water		90.4 μg/L
Marine water sediment		6.28 mg/kg
Sewage treatment plant		10 mg/L
Soil		727 μg/kg

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

# General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

## Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

# Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

# Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

# Individual protection measures, such as personal protective equipment

#### Generally

Use only UKCA marked protective equipment.

#### Respiratory Equipment

Туре	Class	Colour	Standards
No special when used as intended.			

# Skin protection

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

## Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,7	> 30	EN374-2, EN374-3, EN388, EN421	

# Eye protection

Туре	Standards
Safety glasses	EN166



## SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Green

Odour / Odour threshold

Barely perceptible odour

рΗ

Testing not relevant or not possible due to the nature of the product.

Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to the nature of the product.

Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to the nature of the product.

Flammability (°C)

>93

Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

#### Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

#### Solubility

#### Solubility in water

Insoluble

## n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

#### Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

#### 9.2. Other information

## Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

# Other physical and chemical parameters

No data available.

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

## 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Sunlight

#### 10.5. Incompatible materials

Strong acids

Strong oxidizing agents

# 10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

#### **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law Acute toxicity

Based on available data, the classification criteria are not met.

## Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes serious eye damage.

## Respiratory sensitisation

Based on available data, the classification criteria are not met.

## Skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

## STOT-single exposure

May cause respiratory irritation.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 1. Information on other hazards

#### Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

#### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

#### Other information

acrylic acid;prop-2-enoic acid has been classified by IARC as a group 3 carcinogen.

N,N-dimethyl-o-toluidine;N,N-dimethyl-p-toluidine;N,N-dimethyl-m-toluidine has been classified by IARC as a group 2B carcinogen.

## SECTION 12: Ecological information

#### 12.1. Toxicity

No data available.

#### 12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

#### 12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

#### **SECTION 13: Disposal considerations**

#### Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 8 - Corrosive

HP 13 - Sensitising

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

# EWC code

Not applicable.

## Specific labelling

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

# **SECTION 14: Transport information**

# 14.2 UN / ID UN proper shipping name 14.3 Hazard class(es) 14.4 PG\* 14.5 Other Env\*\* information:

ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

<sup>\*</sup> Packing group

<sup>\*\*</sup> Environmental hazards

#### Additional information

This product is within scope of the regulations of transport of dangerous goods.

#### 14.6. Special precautions for user

Not applicable.

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

No data available.

#### **SECTION 15: Regulatory information**

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

#### Restrictions for application

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

## Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

## UK-REACH, Annex XVII

acrylic acid; prop-2-enoic acid is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

#### Additional information

Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

#### Sources

The Management of Health and Safety at Work Regulations 1999.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

# 15.2. Chemical safety assessment

No

## **SECTION 16: Other information**

#### Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H311, Toxic in contact with skin.

H312, Harmful in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H331, Toxic if inhaled.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H373, May cause damage to organs through prolonged or repeated exposure.

H400, Very toxic to aquatic life.

H412, Harmful to aquatic life with long lasting effects.

## Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

**UN = United Nations** 

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## The safety data sheet is validated by

Paul Reeds

## Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en