SAFETY DATA SHEET 1367 ENZYME MULTIPURPOSE RTU

According to Regulation (EC) No. 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	1367 ENZYME MULTIPURPOSE RTU
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	Detergent. For professional use only.
Uses advised against	Not for direct contact with Food or Beverage stuffs. Not for oral consumption.
1.3. Details of the supplier of	the safety data sheet
Supplier	MERLIN CHEMICALS Unit 5, Passfield Mill Business Park, Liphook, Hampshire, GU30 7RR +44 (0)1428 751122 +44 (0)1428 751133 technical@merlinchemicals.co.uk
1.4. Emergency telephone nu	Imber
Emergency telephone	Out of Office Hours Emergency Information:- For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call:- +44(0) 7050 265597. Note:- This number will not accept order queries or calls dealing with equipment breakdowns. UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599 (This is a Lo Call Number)
SECTION 2: Hazards identified	cation
2.1. Classification of the subs	tance or mixture
Classification (EC 1272/2008	$\underline{\mathbf{D}}$
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
2.2. Label elements	
Hazard statements	NC Not Classified
Precautionary statements	P280 Wear protective gloves, eye and face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/ attention.

Supplemental label EUH210 Safety data sheet available on request.

information

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ALCOHOL ETHOXYLATE		<19
CAS number: 68439-45-2		
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classificatio Xn; R22. Xi;	on (67/548/EEC or 1999/45/EC) ; R41
PROPAN-2-OL		<19
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01- 2119457558-25
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classificatio F; R11. Xi; F	on (67/548/EEC or 1999/45/EC) R36. R67
The Full Text for all R-Phras	es and Hazard Statements are Displayed in Se	ction 16.
Composition comments	To the best of our knowledge, all of the subs for the relevent application in REACH.	stances used in this product are being supported
SECTION 4: First aid measu	ures	
4.1. Description of first aid m	neasures	
General information	In case of accident or if you feel unwell, see where possible).	k medical advice immediately (show the label
Inhalation	Move affected person to fresh air and keep breathing. Get medical attention if any disco	warm and at rest in a position comfortable for omfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thorou immediately. Show this Safety Data Sheet to	
Skin contact	Remove contaminated clothing and rinse sk irritation persists after washing.	kin thoroughly with water. Get medical attention if
Eye contact		ds wide apart. Promptly wash eyes with plenty of nse for at least 15 minutes. Get medical attention
Protection of first aiders	First aid personnel should wear appropriate	protective equipment during any rescue.
4.2. Most important symptor	ns and effects, both acute and delayed	
General information	Prolonged contact may result in dryness of s stinging discomfort.	skin. Eye contact may result in redness and
nhalation	Unlikely route of exposure. Inhalation of spr mouth and nose.	ayed droplets may result in soreness of the throa
ngestion		e abuse. There may be soreness and redness of ported. May cause irritation/discomfort to mucous
Skin contact	Prolonged or repeated contact with skin ma solutions may cause mild irritation, especial	y cause irritation, redness and dermatitis. Use ly to open cuts and abrasions.
Eye contact	May cause redness and irritation (stinging s	increation) to over

5.2. Special hazards arising from the substance or mixture Specific hazards The product is non-combustible. If heated, irritating vapours may be formed. 5.3. Advice for firefighters Protective clothing and respiratory protection should be worn when tackling fires involving this firefighting Protective actions during firefighters Protective clothing and respiratory protection should be worn when tackling fires involving this product. Control run-off water by containing and keeping it out of sewers and watercourses. Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. SECTION 6: Accidental release measures 6.1. Personal precautions Ensure adequate ventilation of the working area. Wear protective clothing as described in Section 8 of this safety data sheet. 6.2. Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. 6.3. Methods and material for containment and cleaning up Methods for cleaning up Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable labelled containers and seal securely. For waste disposal, see Section 13. 6.4. Reference to other sections See sections 8,12 & 13 SECTION 7: Handling and storage Refer to section 8. Ensure adequate ventilation of the working area. Wear suitable protective equipme	Notes for the doctor	Contains Enzymes that may cause an allergic reaction
Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire 5.2. Special hazards arising from the substance or mixture The product is non-combustible. If heated, irritating vapours may be formed. 5.3. Advice for firefighters Protective actions during product. Control run-off water by containing and keeping it out of severs and watercourses. Special hazards Protective clothing and respiratory protection should be worn when tackling fires involving this product. Control run-off water by containing and keeping it out of severs and watercourses. Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. SECTION 6: Accidental release measures Ensure adequate ventilation of the working area. Wear protective clothing as described in Section 8 of this safety data sheet. 6.2. Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. 6.3. Methods and material for containment and cleaning up Methods for cleaning up Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable labelled containers and seal securely. For waste disposal, see Section 13. 6.4. Reference to other sections See sections 8,12 & 13 SECTION 7: Handling and storage Irreforedexposure an	SECTION 5: Firefighting meas	sures
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•	Specific end use(s)	Detergent, refer to Product Information Sheet for full details.
SECTION 8: Exposure Controls/personal protection	Usage description	Refer to use instructions.
	SECTION 8: Exposure Contro	Is/personal protection
8.1. Control parameters	Occupational exposure limits	

Occupational exposure limits PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³ WEL = Workplace Exposure Limit

Ingredient comments Where an exposure level is quoted, a risk assessment should consider if there is a need to monitor the atmosphere of the working environment. Results should be compared against the WEL and/or DNEL information provided. The Long Term WEL refers to total exposure of a worker to a specific substance averaged out over an 8 hour period. The Short Term WEL refers to a single exposure of a worker to a specific substance over a 15 minute period. If the Short Term WEL is exceeded and no Long Term Limit is set, further exposure during the working shift is not permitted. Further controls should be implemented to ensure that future exposure to the substance is reduced below the levels set before the activity is repeated/continued. Where no Short Term WEL exists, guidance from the HSE is to use a value of three times the Long Term WEL. The WEL limits are laid down in the EH40 list as supplied by the HSE. This is taken from the Chemical Agents Directive (98/24/EC). Where a worker is exposed to levels approaching a limit, further exposure control measures should be considered to reduce exposure to the substance. DNEL and/or PNEC information is supplied by manufacturers of substances in accordance with REACH legislation (Regulation (EC) No 1907/2006), and is used to provide suitable risk reduction measures to limit exposure of the user of the substance to a non hazardous level. If the measured level of exposure by a route divided by the DNEL for the route is greater than 1, then further exposure controls should be implemented as described in section 8.2. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

PROPAN-2-OL (CAS: 67-63-0)

DNEL	Professional - Dermal; 1 d Chronic effects: 888 mg/kg Professional - Inhalation; Chronic effects: 500 mg/m ³
PNEC	- Fresh water; 140.9 mg/l - Marine water; 140.9 mg/l - Sediment (Freshwater); 552 mg/kg - Sediment (Marinewater); 552 mg/kg - Soil; 28 mg/kg
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.
Personal protection	The PPE indicated above is not a COSHH assessment. It represents PPE that should be considered during the manufacture, distribution, use and final disposal stages of this product's life cycle. It is the responsibility of employers to conduct a COSHH/risk assessment to

Eye/face protection No specific eye protection required during normal use. Wear approved, tight fitting safety glasses where splashing is probable.

processes to minimise contact with the product.

determine appropriate PPE levels. The information given below should be used to support this assessment. Where possible replace manual processes with automated or closed

Hand protection	Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). Refer to Standard EN 374.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.
Hygiene measures	Provide eyewash station and safety shower. Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin.
Respiratory protection	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit.
Environmental exposure controls	Do not allow the substance to contaminate surface water/ground water. See points 6, 12 &13.
General Health and Safety Measures.	A full Risk Assessment should be carried out before handling any chemical(s). Risk Assessments should refer to COSHH, and any other relevant legislation or industry specific guidelines governing the use of chemicals.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	White.
Odour	Characteristic.
Odour threshold	Not applicable.
рН	pH (concentrated solution): 6 - 7
Melting point	Not applicable.
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.00 - 1.02
Bulk density	Not applicable.
Solubility(ies)	Soluble in water.
Partition coefficient	Technically not feasible.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not determined.
Explosive properties	Not applicable.

Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
9.2. Other information	
Refractive index	Not applicable.
Particle size	Not applicable.
Molecular weight	Not applicable.
Volatility	Not applicable.
Saturation concentration	Not applicable.
Critical temperature	Not applicable.
Volatile organic compound	Not applicable.
Explosive Properties	Not Classified as Explosive
Storage Temperature Range	0 - 40°C
SECTION 10: Stability and rea	nctivity
10.1. Reactivity	
Reactivity	Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended See note 10.6.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Refer to section 10.1.
10.4. Conditions to avoid	
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
10.5. Incompatible materials	
Materials to avoid	Strong acids.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended See section 10.5.
SECTION 11: Toxicological inf	formation
11.1. Information on toxicologi	cal effects
General information	See section 4.2.
Inhalation	Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose See section 4.2.
Ingestion	Unlikely route of exposure without deliberate abuse. There may be soreness and redness of mouth and throat. A soapy taste may be reported. May cause irritation/discomfort to mucous membranes.

Skin contact	Under normal conditions of use exposure time will be short and the likelihood of causing skin irritation will be very low. Long exposure may result in skin dryness.
Eye contact	May cause temporary eye irritation.
SECTION 12: Ecological Infor	mation
Ecotoxicity	This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.1. Toxicity	
Acute toxicity - fish	Normal use of diluted product is unlikely to pose a risk. See note 12.0.
12.2. Persistence and degrada	ability
Persistence and degradability	The product is biodegradable.
12.3. Bioaccumulative potentia	
Bioaccumulative potential	Not expected to bioaccumulate.
Partition coefficient	Technically not feasible.
12.4. Mobility in soil	
Mobility	The product contains substances which are water soluble and may spread in water systems.
12.5. Results of PBT and vPv	B assessment
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	Not determined.
SECTION 13: Disposal consid	lerations
13.1. Waste treatment method	
General information	When handling waste, the safety precautions applying to handling of the product should be considered. Do not mix with other chemicals.
Disposal methods	Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Small volumes of use solution can be disposed of to sewers.
SECTION 14: Transport information	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
14.1. UN number	
Not applicable.	
14.2. UN proper shipping name	
Not applicable.	
14.3. Transport hazard class(es)	
No transport warning sign required.	

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

 EU legislation
 European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of
Substances and Mixtures.
This replaces Directive 67/548/EEC - Classification, Packaging and Labelling of Dangerous
Substances and Regulation (EC) No. 453/2010 relating to the Classification, Packaging and
Labelling of Dangerous Preparations. Also considered is the REACH Regulation (EC)
No.1907/2006.

15.2. Chemical safety assessment

Pcs Information

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	 (EC) No. 1272/2008 : EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures. NPIS - National Poisons Information Service. vPvB - Very Persistent, Very bioaccumulative. PBT - Persistent, Bioaccumulative & Toxic. REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC 1907/2006). DNEL - Derived No Effect Limit. PNEC - Predicted No Effect Concentration. COSHH - Control of Substances Hazardous to Health. Industry - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.
General information	This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customer's responsibility to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment. The Risk and Hazard statements listed below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.
Revision comments	Review in line with CLP Regulation.
Revision date	01/05/2015
SDS number	22015

Hazard statements in full	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
REACH extended MSDS comments	REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevent recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevent information is incorporated into the safety data sheet.
END OF SAFETY DATA	

SHEET

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.