Safety Data Sheet

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

1.1. Product identifier

Trade name	SURFZYME HEAVY DUTY DEGREASER (HD2),
U.F.I.	Not applicable
Product code	#50025-0020
Other identifiers	Not applicable

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

Identified use(s)	PC 35: Washing and cleaning products. Use as a parts washer and degreaser.
Uses advised against	This product should not be used for any purpose other than intended use.

1.3. Details of the supplier of the safety data sheet

Supplier name:	ZYMO Europe Inc.
Supplier address:	ZYMO Europe Inc. P.O Box 9240 Fleming Island FL 32006 United States of America
Supplier telephone:	+1 904-213-7994
Email:	admin@zymo.com
Manufacturer name:	Grotech Production Ltd
Manufacturer address:	Grotech Production Ltd Britannia Road Goole East Yorkshire DN14 6ET
Supplier telephone:	+44 (0) 1405 761746
Email:	sales@grotechproduction.co.uk

1.4. Emergency telephone

Country/ region	Language(s)	Tel No.	Operational hours, other restrictions
United Kingdom	English	+44 (0) 999	24-hour line
United Kingdom	English	+44 (0) 111	24-hour line

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Serious eye irritation (Category 2), H319

2.2. Label elements

CLP Hazard Pictograms:

Signal Word: Warning

Hazard Statements:

H319: Causes serious eye irritation

Precautionary Statements:

P264: Wash hands thoroughly after handling
P280: Wear protective gloves and eye protection
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
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
P501: Dispose of contents/ container to a waste collection point, empty container may be disposed of to trade or municipal waste

Supplemental information on the label: None

Label information where small pack derogation applies:

Label information requirements for packages of ≤ 125 ml

CLP Hazard Pictograms:

Signal Word: Warning

Hazard Statements: None

Precautionary Statements: None

2.3. Other hazards

PBT Product and components not tested for PBT
vPvB Product and components not tested for vPvB

2.4. Additional Information Full text for Hazard and Precautionary Statements in Section 16.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC Classification No 1272/2008

Substance name	% w/w	Identification numbers (CAS, EC, Index)	REACH reg. no	CLP classification	M-factors, SCLs, ATEs
Alcohols, C9-11, ethoxylated, 6-8 moles ethylene oxide	1 - <3	68439-46-3 614-482-0 -	-	H302, H318	- - -

SECTION 4: First aid measures

4.1. Description of first aid measures

If inhaled:	Move person away from the source of exposure and into fresh air, if casualty is not breathing give artificial respiration. If breathing is difficult consult a physician immediately.
If on skin (or hair):	Wash exposed skin with plenty of water until any soapy sensation subsides, remove any contaminated clothing and wash before reuse, seek medical advice if any pain or irritation persists. Treat dry skin with a topical moisturizer.
If in eyes:	Immediately flush the eyes with plenty of water for up to fifteen minutes. Remove any contact lenses and open eyes wide apart to wash. Seek medical attention if pain persists and show this document to the medical practitioner.
If swallowed:	Rinse out the mouth and give the casualty water to drink. Do not induce vomiting, but if vomiting occurs spontaneously keep the airways clear. Seek medical attention if the casualty is feeling unwell or is concerned.
Other first aid advice:	Irritation can occur to mucous membrane on exposure; initial first aid should include dilution and washing of any exposed areas.

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

If inhaled:	Inhalation may occur through the generation of aerosols, mist or foam. On exposure respiratory discomfort, coughing, and sneezing can occur. A sore throat may develop after exposure.
If on skin (or hair):	Skin exposure may cause some minor redness, soreness and dryness, especially to already damaged skin. Effects may become more severe with repeated exposure or where contaminated skin is left unwashed.
If in eyes:	Exposure to the eyes will result in immediate pain and watering and can cause eye injury if not washed.
If swallowed:	This product is expected to have low oral toxicity but may cause irritation to the gastro-intestinal tract, stomach pain, nausea and diarrhoea.

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

Other advice	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

All extinguishing agents permitted.

5.2. Special hazards arising from the substance or mixture

Combustion products can include Oxides of carbon and nitrogen.

5.3. Advice for firefighters

Fight fire with normal precautions. Prevent exposure by keeping a safe distance and wearing suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations. It is advisable that procedures are in place for the handling liquid chemical spills.

6.2. Environmental precautions

Take measures to prevent significant amounts of material from entering drains, surface water, soil and open ground. When handling this material ensure that provisions are in place to prevent liquids from entering drains. An uncontrolled release may have a negative impact to bodies of water including foaming and a drop in surface tension.

6.3. Methods and material for containment and cleaning up

Spilt product liquid can be contained with absorbent booms and other absorbative materials, such as sand or vermiculite. Shovel product-contaminated absorbent into open-topped steel or plastic drums.

6.4. Reference to other sections

See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wash hands and exposed skin before breaks and after use. Wear appropriate PPE when handling the material. Wash hands after use and before eating and drinking. Remove contaminated clothing and PPE before entering communal and eating spaces.

7.2. Conditions for safe storage, including any incompatibilities

Protect from direct sunlight and large swings in temperature. Stabilisers and antioxidants are not used in this product.

7.3. Specific end use(s)

Use as a parts washer and degreaser.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:	No product or declared constituent data available.
PNECs and DNELs	No product data available.

8.2. Exposure controls

Note that decanting processes involving this material may create a risk of splashing, spray and dripping, and manual handling and decanting of product is anticipated during normal use.

Personal Protection Equipment

Personal protective equipment (PPE) should be chosen according to the findings of relevant risk and COSHH assessments.

Eye protection:	Safety glasses/ goggles that satisfy standard EN 166.
Hand protection:	Suitable resistant safety gloves that satisfy standard EN 420 as a minimum. Nitrile gloves are known to be effective when working with these products. Where handled for an extended duration (across a working day) a glove that satisfies standard EN 374 is recommended to prevent skin exposure.
Other skin protection	Body protection should be chosen depending on activity and possible exposure, e.g. apron, overalls, protective boots. Do not wear open footwear.
Respiratory protection	Respiratory equipment is not expected to be necessary during normal use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Clear, colourless to pale yellow liquid
State:	Liquid
Odour:	Characteristic, slight surfactant
Odour threshold:	Data not available
pH:	6.5 – 8.0
Melting point/ freezing point:	Water content expected to freeze at below 0ºC
Boiling point, or initial boiling point and boiling range:	Water content will boil from 100ºC
Flash point:	Not applicable
Evaporation rate:	As water for water content
Flammability (if solid or gas):	Not applicable
Lower and upper flammability or explosive limits:	Not applicable
Vapour pressure:	Data not available
Relative vapour density:	Data not available
Density and/or relative density:	0.99 – 1.01 g/ml at 20ºC
Solubility:	The product is fully miscible in further water.
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Data not available
Kinematic viscosity:	Not measured, anticipated to be <60 cPs.
Explosive properties:	Not applicable
Oxidising properties:	Not applicable

9.2. Other information No other information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific reactions are anticipated.

10.2. Chemical stability

The product is expected to be chemically stable under anticipated storage and handling conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions are not expected to occur during storage and handling.

10.4. Conditions to avoid

There are no known hazardous conditions that would have negative effects during storage and handling.

10.5. Incompatible materials

This product may react with strong oxidising agents.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Not classified as acutely toxic. Based on the available data, the classification criteria are not met.

Irritation/ Corrosion

Test data for acute eye irritation has been undertaken in accordance to test guideline OECD 405, which has found that this product is classified as Category 2 for acute eye irritancy.

Not classified as irritating/ corrosive to skin, based on the available data, the classification criteria are not met.

Sensitisation

Not classified as a skin or respiratory sensitiser, based on the available data, the classification criteria are not met.

Mutagenicity

Not classified as a mutagen. Based on the available data, the classification criteria are not met.

Carcinogenicity

Not classified as a carcinogen. Based on the available data, the classification criteria are not met.

Reproductive toxicity

Not classified as a reprotoxin. Based on the available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not classified for specific target organic toxicity on single exposure. Based on the available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Not classified for specific target organic toxicity on repeated exposure. Based on the available data, the classification criteria are not met.

Aspiration hazard

Not classified as an aspiration hazard. Based on the available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

There is no specific test data for this product. Data is supplied for declared components.

C9 – C11 alcohol ethoxylate + 6-8 moles EO [CAS 68439-46-3]

Species	Test metric	Value
Oncorrhynchus mykiss (Rainbow trout)	LC50 96H	5 mg/L
Daphnia magna (water flea)	EC50 48H	2.5 mg/L
Pseudokirchneriella subcapitata (algae)	EC50 96H	1.4 mg/L

12.2. Persistence and degradability

The product has not been tested for biodegradability. It contains multiple surfactants that are expected to be biodegradable.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

No test data available. The product is readily miscible in water and is expected to be mobile in water and soil.

12.5. Results of PBT and vPvB assessment

The product has not been assessed for PBT or vPvB. The component substances have are not classified as PBT/ vPvB.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment containers to be used for product include IBCs or steel/ plastic drums. Recycle the product where possible. If heavily soiled or disposal judged as necessary then small quantities of product (a few litres) or dilute washings are eligible for disposal down domestic drains.

No specific waste treatment containers to be used for contaminated packaging, packaging should be recycled where possible. Waste treatment method for contaminated packaging should include a rinse with water, this effluent is eligible for disposal down domestic drains.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	N/A	N/A	N/A
14.2. UN proper shipping name	N/A	N/A	N/A
14.3. Transport hazard class(es)	N/A	N/A	N/A
14.4. Packing group	N/A	N/A	N/A
14.5. Environmental hazards	No	Marine pollutant: No	No

Additional information

None known

14.6. Special precautions for user

No specific precautions known.

14.7. Maritime transport in bulk according to Annex II of MARPOL L73/78 and the IBC Code

No specific requirements known.

SECTION 15: Regulatory information

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

This SDS has been compiled according to UK SI 2019/758 and EC 1272/2008 as amended in the UK.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for this product. The constituent components of this product are reported in the REACH inventory or are exempt.

SECTION 16: Other information

a) Changes made to SDS:

Changes from revision 3 to revision 4:

Section 1; Identified uses updated. Supplier information updated to include manufacturer information. Emergency contact details updated.
Section 2; CHIP elements removed. P-Statements updated. Small scale packaging information added.
Section 3; Water removed as a component. REACH No removed for surfactant component, this is due to inconsistency against degree of ethoxylation in dossier. CHIP elements removed.
Section 4; Advice and symptom information updated.
Section 5; Extinguisher information updated to include all media. Text simplified.
Section 6; Rewritten with additional details included.
Section 7; Rewritten, section simplified.

Section 8; Rewritten, PPE recommendations simplified.
Section 9; Physical properties updated.
Section 10; Information updated.
Section 11; Section rewritten, eye test data reference clarified and simplified.
Section 12; Rewritten with additional details included.
Section 13; Rewritten with additional details included.
Section 14; Section reformatted.
Section 15; Rewritten, section simplified.

b) Key (or legend)

PPE	Personal Protective Equipment
LC50	Lethal Concentration affecting 50% of sample population
EC50	Effective Concentration affecting 50% of sample population
OECD	Organisation for Economic Co-operation and Development

c) Literature references

Data gathered for raw materials from European Chemicals Agency:
http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
Last accessed (10/07/2023)
Some physical properties reported from direct laboratory testing performed at manufacturer site.
Some properties gathered from supplier SDS of constituent components.

d) Details of relevant hazard information

H302:	Harmful if swallowed
H318:	Causes serious eye damage
H319:	Causes serious eye irritation
P264:	Wash hands thoroughly after handling
P280:	Wear protective gloves and eye protection
P302 + P352:	IF ON SKIN: Wash with plenty of soap and water.
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
P501:	Dispose of contents/ container to a waste collection point, empty container may be disposed of to trade or municipal waste

e) Appropriate training for workers

Training for spillage and chemical handling is recommended.

f) Classification method

Classification on the basis of components and specific test data.