

SAFETY DATA SHEET CHRYSALIS LEGEND DEEPFRESH

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

1.1. Product identifier

Product name CHRYSALIS LEGEND DEEPFRESH

Product number LEGM_AD0120_4NX5

Internal identification 3017

Container size 5L

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

Identified uses Floor cleaner. For professional use only.

Uses advised against Not for oral consumption.

1.3. Details of the supplier of the safety data sheet

Supplier Chrysalis Supplies Limited

Unit 9a, Crest Rise Thurmaston

Leicestershire LE4 9EX

info@chrysalis.uk.com

Manufacturer UK - Merlin Chemicals Ltd.

Unit 5 Passfield Mill Business Park.

Liphook, Hampshire, GU30 7RR

Tel: +44 (0)1428 751122

email: technical@kersia-group.com

EU - Kersia Deutschland GmbH, Marie-Curie-Straße 23

53332 Bornheim - Sechtem

1.4. Emergency telephone number

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 identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Met. Corr. 1 - H290

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

Precautionary statements P280 Wear protective clothing, gloves, eye and face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical advice/ attention.

P501 Dispose of contents/ container in accordance with national regulations.

Contains C9-11 ALCOHOL ETHOXYLATE WITH 6.5M ETHYLENE OXIDE

Detergent labelling < 5% amphoteric surfactants, < 5% non-ionic surfactants, Contains d-Limonene

Supplementary precautionary

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

statements

P405 Store locked up.

Labelling notes Classification based on Extreme pH rules

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

DIPROPYLENE GLYCOL METHYL ETHER (DPM)

5-10%

CAS number: 34590-94-8 EC number: 252-104-2 REACH registration number: 01-

2119450011-60-XXXX

Classification

Not Classified

C9-11 ALCOHOL ETHOXYLATE WITH 6.5M ETHYLENE

1-5%

OXIDE

CAS number: 68439-46-3

Classification

Acute Tox. 4 - H302 Eye Dam. 1 - H318 Revision date: 01/12/2020

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Alanine, N,N-bis(carboxymethyl) - trisodium salt

1-5%

CAS number: —

REACH registration number: 01-

0000016977-53

Classification

Met. Corr. 1 - H290

SODIUM HYDROXIDE <1%

CAS number: 1310-73-2 EC number: 215-185-5 REACH registration number: 01-

2119457892-27

Classification

Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318

d-Limonene <1%

CAS number: 5989-27-5 EC number: 227-813-5 REACH registration number: 01-

2119529223-47-XXXX

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

Composition comments To the best of our knowledge, all of the substances used in this product are being supported

for the relevent application in REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information When it is safe to do so, remove victim immediately from source of exposure. However,

consideration should be given as to whether moving the victim will cause further injury. Place unconscious person in the recovery position. Get medical attention. For immediate First Aid

advice in the UK, dial 111.

Inhalation Remove affected person from source of contamination. Provide rest, warmth and fresh air. If

breathing stops, provide artificial respiration. Get medical attention if any discomfort

continues.

Ingestion Do not induce vomiting. Rinse mouth thoroughly.

Skin contact Remove contaminated clothing that is not stuck to the skin. Flush area with clean water.

Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of

water while lifting the eyelids. Continue to rinse for at least 15 minutes and get medical

attention.

Revision date: 01/12/2020

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Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information Neat product may cause chemical burns and permanent eye damage. Dilute product may

cause irritation to the skin and eyes.

Inhalation This product is corrosive. Inhalation of neat product is unlikely. However, inhalation of

vapours from hot surfaces, or sprayed droplets may result in severe burns to the mouth, nose,

GI tract and airways.

Ingestion Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical

burning of mouth, throat and GI tract will occur. If dilute chemical is ingested, soreness of

mouth, throat and GI tract may occur together with redness and blistering.

Skin contact Causes severe burns.

Eye contact May result in permanent eye damage.

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

Notes for the doctor Rinse well with water to neutral pH.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media This product will not support combustion and is not flammable. Use an extinguishing media

suitable for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Specific hazards In contact with some metals (Aluminium, Zinc and their Alloys) Hydrogen Gas is formed,

which may form an explosive mixture with air. - Note this applies to neat product. The product

is non-combustible. If heated, corrosive and toxic vapours/gases may be formed.

5.3. Advice for firefighters

Protective actions during

firefighting

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, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

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 upWear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,

clothing or apron, as appropriate. Stop leak if possible without risk. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections See sections 8,12 & 13

SECTION 7: Handling and storage

Revision date: 01/12/2020

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7.1. Precautions for safe handling

Usage precautions Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

prolonged vapour contact. Refer to section 8.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed. Store away from the following materials: Acids. Bleach. Store

below 40°C.

7.3. Specific end use(s)

Specific end use(s) Floor cleaner. Refer to Product Information Sheet.

Usage description Refer to use instructions.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

DIPROPYLENE GLYCOL METHYL ETHER (DPM)

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

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. 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.

Alanine, N,N-bis(carboxymethyl) - trisodium salt

DNEL Professional - Inhalation; Short term systemic effects: 40 mg/m³

Professional - Inhalation; Short term local effects: 40 mg/m³ Professional - Inhalation; Long term local effects: 4 mg/m³

PNEC - Fresh water; 2 mg/l

- STP; 100 mg/l - Soil; 2.5 mg/kg

marine water; 0.2 mg/lIntermittent release; 1 mg/l

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Industry - Inhalation; Long term local effects: 1.0 mg/m³

DNEL data for Professional users is not yet available, but it is assumed to be the

same as for Industrial users.

Industry - Dermal; Short term local effects: 2%

PNEC No information is available for PNEC data for Sodium Hydroxide

8.2. Exposure controls

Protective equipment









Appropriate engineering controls

Provide adequate ventilation.

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

Eye/face protection

Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Impervious Chemical Resistant Gloves of Butyl Rubber, PVC, Polychloroprene with a natural latex liner, all with a minimum material thickness 0.5mm and a breakthrough time of >480mins. Alternatively Nitrile Rubber, Fluorinated Rubber, both with a minimum thickness of 0.35 - 0.4mm and a breakthrough time of >480minutes. Refer to Standard EN 374 and EN 16523

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.

Hygiene measures

Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Contaminated clothing and shoes must be discarded. Provide eyewash station and safety shower.

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.

Use solutions will have extreme pH and should be considered corrosive to skin. Use of gloves and eye protection is recommended. 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 Yellow.

Odour Characteristic.

Odour threshold Not applicable.

pH (concentrated solution): 12.5 - 13.5

Melting pointNot applicable.Initial boiling point and range~100 Degrees CFlash pointNot 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 - 1.05 @ 20 Degrees C

Bulk density

Solubility(ies)

Partition coefficient

Auto-ignition temperature

Not applicable.

Not applicable.

Decomposition Temperature Not applicable.

Viscosity Not determined.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

Not applicable.

Not applicable.

9.2. Other information

Volatile organic compound

Explosive properties

Refractive index

Particle size

Not applicable.

Molecular weight

Not applicable.

Volatility

Not applicable.

Saturation concentration

Not applicable.

Critical temperature

Not applicable.

Explosive Properties Not Classified as Explosive

Storage Temperature Range Store Between 0 - 40°C

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Not expected to react when correctly stored and used. Mixing with other chemicals may

produce unexpected reactions. The solution is strongly alkaline and reacts with strong acids

with heat generation.

10.2. Chemical 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. Do not mix with Hypochlorite based chemicals, this could result in a dangerous heating of the solution. Do not mix with acids, this will generate heat and give off

corrosive vapours.

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. Bleach. Reaction with Aluminium, Zinc, Tin, Copper or their alloys produces

flammable Hydrogen Gas. - Note: reaction relates to neat product.

10.6. Hazardous decomposition products

Hazardous decomposition

products

No specific hazardous decomposition products noted. - See section 10.5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 10,526.32

General information Toxic effect linked with corrosive properties. See section 4.2.

Inhalation Inhalation of sprayed droplets or vapours from hot surfaces may result in severe burns to the

mouth, nose, GI tract and airways. - See section 4.2.

Ingestion Causes severe burns. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Causes severe burns.

Eye contact Risk of serious damage to eyes. May cause permanent eye injury.

SECTION 12: Ecological information

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. Normal use is unlikely to pose a risk to the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fishThis mixture is not classified as toxic to aquatic organisms.

Note:- pH values greater than 10.5 may be fatal to fish and other aquatic organisms, there

may also be damage to aquatic plants.

Normal use of the diluted product is not expected to pose any risk.

See note 12.0

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria

as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to bioaccumulate.

Partition coefficient Not applicable.

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 vPvB 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 considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be

considered. Do not mix with other chemicals. 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.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN No. (ADN) 1760

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

CORROSIVE LIQUID, N.O.S. (CONTAINS Alanine, N,N-bis(carboxymethyl) - trisodium salt,

SODIUM HYDROXIDE)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (CONTAINS Alanine, N,N-bis(carboxymethyl) - trisodium salt,

SODIUM HYDROXIDE)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (CONTAINS Alanine, N,N-bis(carboxymethyl) - trisodium salt,

SODIUM HYDROXIDE)

Proper shipping name (ADN) CORROSIVE LIQUID, N.O.S. (CONTAINS Alanine, N,N-bis(carboxymethyl) - trisodium salt,

SODIUM HYDROXIDE)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C9

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Hazard Identification Number 80

(ADR/RID)

Tunnel restriction code (E)

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

Classification and Labelling of Chemicals (GB CLP) and considers UK National REACH

legislation.

EU legislation European Regulation (EC) No 1272/2008 (as amended) on Classification, Labelling and

Packaging of Substances and Mixtures.

Also considered is the REACH Regulation (EC) No.1907/2006 (as amended).

15.2. Chemical safety assessment

Pcs Information

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.

COSHH - Control of Substances Hazardous to Health.

DNEL - Derived No Effect Limit.

Industry - Refers in section 8 to application of the substance in an industrial process.

NPIS - National Poisons Information Service. PBT - Persistent, Bioaccumulative & Toxic.

Professional - Refers in section 8 to application/use of the preparation/product in a skilled

trade premises.

REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC

1907/2006).

vPvB - Very Persistent, Very bioaccumulative.

General information Only trained personnel should use this material. 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 No Change to Formulation, or Classification, SDS re-issued to comply with UK Post Brexit

legislation references.

Revision date 01/12/2020

SDS number 27149

Hazard statements in full H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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.