SAFETY DATA SHEET SUPER CHEMZYME V (EX LIQUID CERTIZYME V)

According to EC Regulation 1907/2006/EC - revision 453/2010 (REACH)

Revision No. 1

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product Name SUPER CHEMZYME V (EX LIQUID CERTIZYME V)
Product Code 1139GX1 (CLP)

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

Recommended use
Biological Drain Line and Grease Trap Maintainer.

1.3. Details of the supplier of the safety data sheet

NCH Belgium Inc.
Lennikse Baan 451,
B-1070 Anderlecht
Tel.: (02) 255 94 30
E-mail address nchbe@nch.com
Website address www.ncheurope.com

1.4. Emergency telephone number

Tel: 32 2 255 94 30 (available during Office Hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations
This mixture is not classified according to EU Regulation No 1272/2008
Safety data sheet available on request.

Classification according to EU Directive 67/548EEC - 1999/45 EC
This mixture is not classified according to EU Directive 1999/45/EC

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)
EU classification for GHS template
Safety data sheet available on request.
For industrial and institutional use only.
Keep out of reach of children.

2.3. Other hazards

No additional hazards identified.
The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

3.2 Mixture

Component	CAS-No.	EC No.	EU - REACH reg number	Weight percent	Classification	EU - GHS/CLP Classification	Notes
ISOPROPYL ALCOHOL	67-63-0	200-661-7	01-2119457558-25	1 - < 3	F; R11 Xi; R36 R67	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	

This mixture contains substances with a Community workplace exposure limit. For any H statements and R phrases mentioned in this section, see the full text in section 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice
Get medical attention immediately if symptoms occur.
Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Ingestion
Rinse mouth with water. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed
Sensitisation
No information available.
Eye contact
May cause irritation as itching and redness.
Skin contact
Unlikely to be irritant on brief or occasional exposure.

4.3. Indication of any immediate medical attention and special treatment needed
Notes to physician
Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use:. Water spray. Foam. Carbon dioxide (CO2). Dry powder.

5.2. Special hazards arising from the substance or mixture
Thermal decomposition can lead to release of irritating gases and vapours.
Material can create slippery conditions.

5.3. Advice for firefighters
Firefighters should wear a self-contained breathing apparatus and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

6.2. Environmental precautions
No special environmental precautions required.

6.3. Methods and material for containment and cleaning up
Methods for Containment
Contain spillage, soak up with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning up
Clean preferably with a detergent, do not use solvents. After cleaning, flush away traces with water.

6.4. Reference to other sections
Refer to sections 7, 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities
Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)
No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits
If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Component	European Union	The United Kingdom	France	Germany	Belgium

ISOPROPYL ALCOHOL		STEL: 500 ppm STEL: 1250 mg/m^3 TWA: 400 ppm TWA: 999 mg/m^3	STEL: 400 ppm STEL: 980 mg/m^3	AGW: 200ppm AGW: 500mg/m^3 Peak: 400ppm Peak: 1000mg/m^3 TWA: 200ppm TWA: 500mg/m^3 BGW: 25mg/L	400 ppm STEL; 1000 mg/m^3 STEL 200 ppm TWA; 500 mg/m^3 TWA

Component	Austria	Switzerland
ISOPROPYL ALCOHOL	STEL: 800 ppm STEL: 2000 mg/m^3 TWA: 200 ppm TWA: 500 mg/m^3	STEL: 400 ppm STEL: 1000 mg/m^3 TWA: 200 ppm TWA: 500 mg/m^3

8.2. Exposure controls

Engineering Measures

General ventilation is normally adequate.

Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 143 eg P2 / P3 Particle filters.

Hand Protection

Long term use eg continuous wear or immersion ;. Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Nitrile rubber (0.4 mm). PVC (0.7mm). Neoprene gloves (0.4 mm). For break through times, refer to glove manufacturers recommendations.

Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Information below relates to typical values and does not constitute a specification.

Appearance	Off-white	**Specific Gravity**	1.04
Physical State	Liquid	**Solubility**	Soluble in water
Odour	Lemon	**Autoignition Temperature**	Not combustable.
pH	7.25	**Viscosity**	Fluid
Melting Point/Range	0 °C	**Explosive properties**	No information available
Boiling Point/Range	100 °C	**Oxidizing Properties**	No information available.
Flash Point	Not relevant	**VOC Content (%)**	1.3 %
Evaporation Rate	No information available.		
Flammability Limits in Air %	Not applicable.		
Vapour Pressure	No information available.		
Vapor Density	No information available.		

9.2. Other information

No other information available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Not considered as highly reactive. See further information below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

10.4. Conditions to avoid

No conditions to be specially mentioned.

10.5. Incompatible materials

Strong acids. Strong bases. Oxidising agents. Reducing agents.

10.6. Hazardous decomposition products

None under normal storage conditions and use.

Thermal decomposition can lead to release of irritating gases and vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information
The product itself has not been tested.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
ISOPROPYL ALCOHOL	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m^3 (Rat) 4 h

Sensitisation
No information available.
Skin contact
Unlikely to be irritant on brief or occasional exposure.
Eye contact
May cause irritation as itching and redness.
Carcinogenicity
There are no known carcinogenic substances in this product.
Mutagenic Effects
There are no known mutagenic substances in this product.
Reproductive Effects
There are no known substances in this product with effects on reproduction.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity
Product Information
The product itself has not been tested.

Component	Toxicity to Fish	Water Flea	Toxicity to Algae
ISOPROPYL ALCOHOL	LC50 = 11130 mg/L Pimephales promelas 96 h LC50 = 9640 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	= 13299 mg/L 48 h	EC50 > 1000 mg/L Desmodesmus subspicatus 72 h EC50 > 1000 mg/L Desmodesmus subspicatus 96 h

12.2. Persistence and degradability
Ecotoxicological properties are substance specific, i.e. bioaccumulation, persistence and degradability. The information is given, where available and appropriate, for substance(s) of the mixture.
12.3. Bioaccumulative potential
Not likely to bioaccumulate. Component information below.

Component	log Pow
ISOPROPYL ALCOHOL	0.05

12.4. Mobility in soil
Soluble in water.
12.5. Results of PBT and vPvB assessment
The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.
12.6. Other adverse effects
No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste from Residues / Unused Products
Dispose of in accordance with local regulations.
Contaminated Packaging
Empty remaining contents. Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal. Recycle according to official regulations.
EWC waste disposal No
The following EWC/ AVV waste codes may be applicable:
19 08 99 Wastes not otherwise specified
19 08 05 Sludges from treatment of urban waste water
Other Information
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORT INFORMATION

14.1, 14.2, 14.3, 14.4.
Not classified for transport as dangerous goods

14.5. Environmental hazards
The mixture is not environmentally hazardous for transport
14.6. Special precautions for user
No special precautions.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Packaged product, not typically transported in IBC's.

Additional information
The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.
This preparation is not classed as hazardous by directive 1999/45/EC. In addition, Directive 2009/2/EC with the 31st Adaptation of Directive 67/548/EEC (Hazardous substances) has been taken into account.
Table of occupational illnesses (FRANCE ONLY):

Component	RG
ISOPROPYL ALCOHOL	RG 84

WGK Classification
Weakly water-endangering (WGK 1), Classification according VwVwS

15.2. Chemical safety assessment
No chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16. OTHER INFORMATION

Text of H statements mentioned in Section 3
H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Text of R phrases mentioned in Section 3
R11 - Highly flammable. R36 - Irritating to eyes. R67 - Vapours may cause drowsiness and dizziness.
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CLP update.

Abbreviations
REACH: Registration Evaluation Authorisation Restriction of Chemicals
EU: European Union
EC: European community
EEC: European Economic Community
UN: United Nations
CAS: Chemical Abstracts Service
PBT: Persistent Bioaccumulative Toxic
vPvB: very Persistent very Bioaccumulative
LC50: Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
LogPow: LogP octanol/water
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)
WGK: Wassergefahrdungsklasse (Water Hazard Class - Germany).
AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
RID: Reglement international concernant le transport des merchandises dangereuses par chemin der fer (Regulations concerning the International carriage of Dangerous goods by rail)
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
ERG: Emergency Response Guidebook
IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances
GHS: Globally Harmonised System of classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
VOC: Volatile Organic Chemical
w/w: weight for weight
DMSO: Dimethyl sulphoxide
OECD: Organization for Economic Cooperation and Development
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
Further Information
Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS
It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be

considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet