

ChefBrand™Liquid <u>Material Safety Data Sheet</u>

[in accordance with the criteria of Regulation no.1907/2006 (REACH) and 453/2010]

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

1.1 Product identifier

Trade name: ChefBrand™ Liquid 6Hr (24's)

Chemical name: diethylene glycol

Index number: 603-140-00-6

Registration number: 01-2119457857-21-XXXX

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

Relevant identified uses: product used as fuel for chafing dish apparatus, for professional use only.

Uses advised against: not determined.

1.3 Details of the supplier of the material safety data sheet

Supplier: MCC fulfilment Ltd.

Address: The Manchester Group, The Front Part, The Dye Works, Kenwood Road,

North Reddish, Cheshire, SK5 6PH

Telephone/Fax number: +44 161 432 0811/+44 161 431 0328

E-mail address for a competent person responsible for MSDS: admin@mccfulfilment.com

1.4 Emergency telephone number

++44 161 432 0811

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC

Xn R22

Harmful if swallowed.

Classification according to Regulation (EC) No.1272/2008

Acute Tox.4 H302, **STOT RE 2** H373

Harmful if swallowed. May cause damage to organs: kidneys, through prolonged or repeated exposure

2.2 Label elements

Hazard symbols and identification



Risk phrases

H302 Harmful if swallowed.

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

Safety phrases

P102 Keep out of reach of children

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P302 IF SWALLOWED: Call a POISON CENTRE or doctor/physician

if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container to an authorised waste

disposal.

2.3 Other hazards

Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of Regulation REACH.

Section 3: Composition/information on ingredients

3.1 Substances

Diethylene glycol

Concentration: >99.5%

CAS number: 111-46-6

EC number: 203-872-2

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: consult a doctor if disturbing symptoms appear. Take off

contaminated clothes. Wash contaminated skin thoroughly

with plenty of water with soap.

Eye contact: consult an oculist if disturbing symptoms appear. Protect non-

irritated eye and remove contact lenses. Wash out with

plenty of water thoroughly for 10-15 minutes. Avoid powerful

water stream - risk of cornea damage.

<u>Ingestion</u>: Call a doctor immediately, show container or label. Immediately

induce vomiting if the person is conscious with caution (risk of choking). Rinse mouth with water. Give $\sim \! 100 \text{ml}$ solution of 40% ethyl alcohol to drink. Never give anything by mouth to an unconscious person. In case of fainting, lay the victim

down in a recovery position.

<u>Inhalation:</u> remove to fresh air. Keep the victim warm and calm. Consult a doctor if disturbing symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed

<u>Skin contact</u>: prolonged exposure may cause redness, drying and slight irritation.

Eye contact: possible redness, tearing and slight irritation.

<u>Ingestion</u>: may cause irritation of digestive tract, disorders of the central nervous system, kidney and liver damage, firstly, intoxication causes similar symptoms as after alcohol intoxication: agitation, problems with speaking, with balance, coordination disorders, headaches and dizziness, drowsiness etc.; then nausea and vomiting. May cause breathing disorders, in case of a severe intoxication: collapse, fainting, coma, possible death due to respiratory arrest. Lethal dose is 0.1-5 g/kg.

<u>Inhalation</u>: due to the low vapour pressure of the product has a low inhalation toxicity, high vapour pressure (heated product) or mist, may cause slight irritation of respiratory tract.

Prolonged exposure: prolonged intoxication may cause renal disorder and damage with polyuria, oliguria and finally – anuria, laboratory tests demonstrated possibility of proteinuria, urinary casts and erythrocytes in urine and increased concentration of nitrogen in the blood. Serious changes in liver, such as enlargement, congestion, fatty degeneration, may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. After ingestion, perform gastric lavage with caution (risk of choking). Intensive conservative treatment. Constant monitoring and levelling of acid-base imbalances.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: alcohol-resistant foam, CO², water spray. Adjust extinguishing media to the surrounding materials.

<u>Unsuitable extinguishing media</u>: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During the fire, the product may produce hazardous fumes containing carbon oxides. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals.

Section 6: Accidental release measures

6.1 personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that removing the problem and its results is conducted by a trained personnel only. In case of large spills, isolate the exposed area. Use personal protective measures. Avoid contact with skin and eyes. Ensure adequate ventilation. Warning! Risk of slipping on the spilled product.

6.2 Environmental precautions

Isolate the spillage, remove the top layer of soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment.

Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect with incombustible, liquid-binding materials (e.g. sand, soil, universal binding agent, silica, sawdust, etc) and place it in containers for waste. Collected material treat as waste. Clean the contaminated area.

6.4 Reference to other sections

Appropriate conduct with waster product – see section 13. Personal protective equipment – see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Before break and after work carefully wash hands. Unused containers keep tightly closed. Ensure adequate ventilation. Work away from the ignition sources.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in a separated, well ventilated area, in original, tightly closed container, placed vertically. Store in a dry, cool area, protect from freezing. Avoid heat and fire sources. Avoid oxidizing agents, acids and bases. Keep away from direct exposure to sunlight. No smoking.

7.3 Specific end use(s)

Product used as chafing dish fuel.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Product does not contain any components with occupational exposure limit values at working place in Community.

Please check any national occupational exposure limit values in your country.

DNEL for diethylene glycol

Inhalation (worker, long-term exposure, local effects) 60 mg/m³

Inhalation (general population, long-term exposure, local effects) 60mg/m³

Skin (worker, long-term exposure, systemic exposure) 100mg/kg

Skin (general population, long-term exposure, systemic effects) 53mg/kg

PNEC for diethylene glycol

Fresh water 10mg/l
Seawater 1mg/l
Soil 1.53mg/kg
Sediment 20.9mg/kg

8.2 Exposure controls

Work in accordance with the principles of safety and hygiene. Do not eat, drink or smoke when using the product. Before break and after work had wash thoroughly. Ensure good general and/or local ventilation at work stations to ensure the maintenance of concentrations of hazardous components in the atmosphere below the exposure limit values.

Hand and body protection:

Use protective gloves if there is a risk of skin contamination. Recommended materials for gloves: neoprene, nitrile rubber.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

Eye/face protection:

Not required in normal conditions of use. Use goggles if there is a risk of eye contamination.

Respiratory protection:

In case of vapours and aerosols formation, use the absorbing or absorbing and filtering equipment of an adequate protective class (class 1/protection from glasses or vapours with a volume concentration lower than 0,1%; class 2/protection from gasses or vapours with a volume concentration lower than 0.5%; class 3/protection from gasses or vapours with a volume concentration up to 1%). If the concentration of oxygen is $\leq 17\%$ and/or the maximum concentration of toxic substance in the air is $\leq 1,0\%$ of volume the isolating equipment should be used.

Personal protective equipment must meet requirements of directive 89/686/CE. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.

Relevant procedures for monitoring of dangerous components concentration in the air and procedures for air pureness control at work place must be applied – if they are available and justified for the

workstation in question – in compliance with relevant Standards, considering the conditions in the exposure are and suitable measurement methodology tailored to the working conditions.

Environmental exposure controls:

Do not allow the large quantity of mixture to contaminate surface water, ground water, sewage system or soil. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determine their compatibility with environmental protection regulations.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless

Odour: faint

Odour threshold: not determined

Ph (concentrate. 20°C): 6-9

Melting point/freezing point: -6,5°C

Initial boiling point and boiling range: 244,9°C

Flash point: 138°C (closed crucible)

Evaporation rate (n-butyl acetate=1): not determined

Flammability (solid, gas): not applicable

Upper/lower flammability or explosive limits: 10,8%/1,6% vol

Vapour pressure (25°C): 0,008 hPa

Density (20°C): 1,18g/cm³

Solubility(ies): soluble in water

Partition coefficient: n-octanol/water: -1,98

Auto-ignition temperature: 229°C

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Decomposition temperature: not determined

Vapour density: 3,66

Explosive properties: not display

Oxidising properties: not display

Viscosity(25°C): 30 mPa·s

9.2 Other information

Refractive index 1,447

Section 10: Stability and reactivity

10.1 Reactivity

Product is feebly reactive, will not undergo dangerous polymerization. See section 10.4-10.5

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Avoid direct sunlight, fire, heat and ignition sources.

10.5 Incompatible materials

Strong oxidants, acids and bases.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1 Information on toxicological effects

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification

and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Acute toxicity

LD50(rat, oral) >16 500 mg/kg

LD50 (human, oral) 1 120 mg/kg

LD50 (rabbit, skin) 13 300 mg/kg

LC (rat, aerosol) >4,6,g/1/4h

Harmful if swallowed.

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

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

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

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

STOT - repeated exposure

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

Aspiration hazard

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

Effects on organs

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Central Nervous System: headaches, dizziness, blurred vision, blackout, convulsions, coma.

Lungs: possible oedema and/or pneumonia.

Heart and circulatory system: possible acute left ventricular failure, concussion, cardiac arrest.

Kidneys: acute renal failure, uraemia.

Blood and circulatory system: coagulation disorders, possible hemolysis, metabolic acidosis.

Section 12: Ecological information

12.1 Toxicity

Toxicity for Fish	LC50	75	2000 MG/L/96H
(Pimephales promelas)			
Toxicity for Daphnia	a EC50	10000	0 mg/l/24h (Daphnia magna)
Toxicity for Algae	EC50	2700 r	ng/l/8 days (Scenedesmus
	quadricauda)		

Toxicity for Aquatic microorganisms EC10 >1995 mg/l/30 min (active sediment, municipal waste, fresh water)

The product is not classified as dangerous for environment.

12.2 Persistence and degradability

Product is biodegradable (70-80%, 28 days, method: OECD 301B)

12.3 Bioaccumulative potential

Not expected to bioaccumulate (log Po/w) - 1,98

12.4 Mobility in soil

Product is easily soluble in water and spreads in the aquatic environment.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

Product does not contribute to ozone depletion or global warming.

Section 13: Disposal considerations

13.1 Waste treatment methods

<u>Disposal methods for the product</u>: disposal in accordance with the local legislation. Store remainings in original containers.

<u>Disposal methods for used packing</u>: reuse/recycling/liquidation of empty containers dispose in accordance with the local legislation.

Only containers completely emptied can be recycled.

Legal basis: Directive 2008/98/EC, 94/62/EC.

Section 14: Transport information

14.1 UN number (ONZ number)

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 transport hazard class(es)

Not applicable.

14.4 packing group

Not applicable.

14.5 Environmental hazards

According to transport regulation, product is not hazardous for the environment.

14.6 Special precautions for user

During handling the cargo, use personal protective measures according to section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Section 15: Regulatory information

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

- Regulation (EC) No.1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93 and Commission Regulation (EC) No.1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- **Regulation (EC) No.1272/2008** of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No.1907/2006 (Text with EEA relevance).
- **Council Directive 67/548/EEC** of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.
- Directive 1999/45/EC of the European Parliament and of the Council of 31

 May 1999 concerning the approximation of the laws,
 regulations and administrative provisions of the Member

 States relating to the classification, packaging and labelling
 of dangerous preparations.
- Commission Regulation (EC) No.790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No.1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (Text with EEA relevance)
- Commission Regulation (EU) No.453/2010 of 20 May 2010 amending
 Regulation (EC) No.1907/2006 of the European Parliament
 and of the Council on the Registration, Evaluation,
 Authorisation and Restriction of Chemicals (REACH) (Text
 with EEA relevance).
- 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

15.2 Chemical safety assessment

Manufacturer carried out a Chemical Safety Assessment for this substance.

Section 16: Other information

Clarification of aberrations and acronyms

PBT Persistent, Bioaccumulative and Toxic Substances

vPvB very Persistent and very Bioaccumulative Substances

Acute Tox. 4 Acute Toxicity category 4

STOT RE 2 Specific target organ toxicity – repeated exposure category 2

Other data

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The information above is based on a current available data concerning the

product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.