

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 & GB REACH UK SI 2020 No. 1577

# DGM Reed Diffuser Base

Version 1.0 Print Date 09/08/2023

Revision date / valid from 09/08/2023

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

#### 1.1. Product identifier

Trade name : DGM Reed Diffuser Base Substance name : 2-(2-Ethoxyethoxy)ethanol

CAS-No. : 111-90-0 EC-No. : 203-919-7

EU REACH-Reg. No. : 01-2119475105-42-xxxx

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

Use of the : Chemical industry in general

Substance/Mixture

Uses advised against : At this moment we have not identified any uses advised

against

#### 1.3. Details of the supplier of the safety data sheet

Company : NI Candle Supplies Ltd

Unit 7A Milltown Industrial Estate, Greenan Road

Warrenpoint, BT34 3FN

Contact : Sarah Lowther Telephone : +44 28 4177 4362

E-mai : support@nicandlesupplies.co.uk

#### 1.4. Emergency telephone number

Emergency telephone : Emergency only telephone number:

number +44 7310 159147

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation S.I. 2019/720 (GB CLP)

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

#### Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical : Se

hazards

See section 9/10 for physicochemical information.

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Potential environmental : See section 12 for environmental information.

effects

#### 2.2. Label elements

# Labelling according to Regulation S.I. 2019/720 (GB CLP)

The product is not labeled as dangerous according to Regulation (EC) No. 1272/2008.

### Additional Labelling:

Handle in accordance with good industrial hygiene and safety practice.

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: No information available about endocrine disruption properties for environment.

Toxicological information: No information available about endocrine disruption properties for human health.

Combustible liquid. If heated above flash point, the vapours may form an explosive mixture with air

#### **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

# Non-hazardous component

Chemical name	Identification Number	Amount [%]
2-(2-Ethoxyethoxy)ethanol	CAS-No. : 111-90-0 EC-No. 203-919-7 REACH-Reg. No. 01-2119475105-42-	<= 100 -xxxx

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice : Move out of dangerous area. Take off all contaminated clothing

immediately.

If inhaled : Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water. If skin irritation persists, call a

physician.

In case of eve contact : Rinse thoroughly with plenty of water, also under the eyelids. If

eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

> Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms persist, call a physician.

Protection of First Aid

Responders

: First Aid responders should pay attention to self-protection and

use the recommended protective clothing.

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

: See Section 11 for more detailed information on health effects **Symptoms** 

and symptoms.

**Effects** : May irritate skin. May cause irritation of the mucous

membranes. See Section 11 for more detailed information on

health effects and symptoms.

#### Indication of any immediate medical attention and special treatment needed

Treatment : In case of accidental inhalation apply glucocorticoid inhalation

spray. Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing

: Water spray, foam, dry powder or CO2.

media

Unsuitable extinguishing

High volume water jet

media

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards during Hazardous combustion

firefighting

Combustible liquid. In case of fire hazardous decomposition

products may be produced such as:

products

Carbon monoxide, Carbon dioxide (CO2)

Advice for firefighters

Special protective : In the event of fire, wear self-contained breathing

equipment for firefighters apparatus. Choose protective equipment according to size of

Further advice Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Cool closed containers

exposed to fire with water spray.

#### **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Avoid contact with skin and eyes.

#### 6.2. **Environmental precautions**

Environmental precautions

: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If material reaches soil inform authorities responsible for such cases. If the product contaminates rivers and lakes or drains inform respective

authorities.

#### 6.3. Methods and materials for containment and cleaning up

containment and cleaning

Methods and materials for : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed

containers for disposal.

Further information : Treat recovered material as described in the section "Disposal

considerations".

#### Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on personal protective equipment.

See Section 13 for waste treatment information.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation.

Handle in accordance with good industrial hygiene and safety

practice.

: Keep away from food, drink and animal feedingstuffs. Smoking, Hygiene measures

> eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off

all contaminated clothing immediately.

#### 7.2. Conditions for safe storage, including any incompatibilities

areas and containers

Requirements for storage : Store in original container.

Advice on protection against fire and explosion

: Combustible liquid. Keep away from heat and sources of ignition. Normal measures for preventive fire protection.

Further information on storage conditions

: Keep tightly closed in a dry and cool place.

Advice on common

storage

: Keep away from food, drink and animal feedingstuffs.

Suitable packaging

materials

: Stainless steel, Polypropylene

Unsuitable packaging

materials

: , Aluminium, Copper

7.3. Specific end use(s)

Specific use(s) : No information available.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# **Other Occupational Exposure Limit Values**

(Additional) Information : Contains no substances with occupational exposure limit values.

Contains no substances with occupational exposure limit values.

Component: 2-(2-Ethoxyethoxy)ethanol

CAS-No. 111-90-0

ΕN

#### Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

**DNEL** 

Workers, Long-term - systemic effects, Skin contact : 50 mg/kg bw/day

DNEI

Workers, Long-term - systemic effects, Inhalation : 37 mg/m3

**DNEL** 

Workers, Long-term - local effects, Inhalation : 18 mg/m3

**DNEL** 

Consumers, Long-term - systemic effects, Skin contact : 25 mg/kg bw/day

DNEL

Consumers, Long-term - systemic effects, Inhalation : 18.3 mg/m3

**DNEL** 

Consumers, Long-term - systemic effects, Ingestion : 25 mg/kg bw/day

**DNEL** 

Consumers, Long-term - local effects, Inhalation : 9 mg/m3

#### **Predicted No Effect Concentration (PNEC)**

Fresh water : 0.74 mg/l

Marine water : 0.074 mg/l

Intermittent releases : 10 mg/l

Sewage treatment plant (STP) : 500 mg/l

Fresh water sediment : 2.47 mg/kg

Related to, dry weight

Marine sediment : 0.274 mg/kg

Related to, dry weight

Soil : 0.15 mg/kg

Related to, dry weight

#### 8.2. Exposure controls

#### Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

#### Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL).

Required if vapours or aerosol are released. Respiratory protection complying with EN 141.

Filter Type : Type A

Hand protection

Advice : Protective gloves complying with EN 374.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion,

and the contact time.

Protective gloves should be replaced at first signs of wear.

Material : butyl-rubber
Break through time : >= 8 h
Glove thickness : 0.5 mm

Material : Fluorinated rubber

Break through time >= 8 hGlove thickness 0.4 mm

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Protective work clothing

**Environmental exposure controls** 

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

If material reaches soil inform authorities responsible for such

cases.

If the product contaminates rivers and lakes or drains inform

respective authorities.

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

liquid Form

Physical state liquid

Colour colourless

Odour : mild

Odour Threshold : 1.1 ppm

: -54 °C Melting point/range

Boiling point/boiling range : 196 °C

Flammability (solid, gas) Product is a liquid, see section 9.2.

Remarks: Flammable liquid with a flash point >60 - <=100 °C.

Upper explosion limit / Upper :

flammability limit

23.5 %(V)

Lower explosion limit / Lower : 1.2 %(V)

flammability limit

Flash point : 91 °C

: 204 °C Auto-ignition temperature

Decomposition temperature : No data available

Self-Accelerating : No data available

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decomposition temperature

(SADT)

pH : not determined

Viscosity

Viscosity, dynamic : 4.4 mPa.s (20 °C)

Viscosity, kinematic : No data available

Flow time : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Dissolution Rate : No data available

Partition coefficient: n-

octanol/water

: log Pow: -0.54

Dispersion Stability : No data available

Vapour pressure : 0.17 hPa (20 °C)

Relative density : No data available

Density : 0.99 g/cm3 (20 °C)

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics No data available

9.2 Other information

Explosives : Formation of explosive air/vapour mixtures is possible.

Oxidizing properties : not oxidising

Flammability (liquids) : Combustible liquid.

Remarks: Flammable liquid with a flash point >60 - <=100 °C.

Evaporation rate : 0.01

(Butyl Acetate = 1)

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

# 10.2. Chemical stability

Advice : Stable under recommended storage conditions.

# 10.3. Possibility of hazardous reactions

Hazardous reactions : Gives off hydrogen by reaction with metals. Reacts with air to

form peroxides. Reacts with: Aluminium Oxidizing agents

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

Thermal decomposition : No data available

10.5. Incompatible materials

Materials to avoid : Aluminium, Incompatible with oxidizing agents. Metals,

Peroxides, Strong acids and strong bases

10.6. Hazardous decomposition products

Hazardous decomposition : Fire may cause evolution of: Carbon oxides

products

# **SECTION 11: Toxicological information**

# 11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

	Irritation	
	Skin	
Result	: Causes skin irritation.	
	Eyes	
Result	: Splash in the eyes may cause discom	fort.
Component:	2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0
	Acute toxicity	
	Oral	
LD50	: 6031 mg/kg body weight(Mouse) (OE0	CD Test Guideline 401)
	Inhalation	
LC0	: 0.025 mg/l (Rat, male and female; 8 h	; vapour)
	Dermal	

LD50 : 9143 mg/kg (Rabbit, male) (OECD Test Guideline 402)

#### Irritation

#### Skin

Result : No skin irritation (Rabbit) (OECD Test Guideline 404)

#### **Eyes**

Result : No eye irritation (Rabbit) (OECD Test Guideline 405)

#### Sensitisation

Result : Study scientifically not justified.

#### **CMR** effects

## **CMR Properties**

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Mutagenicity : In vitro tests did not show mutagenic effects
In vivo tests did not show mutagenic effects

Causes developmental effects in animals at high doses.

Reproductive toxicity : Animal testing did not show any effects on fertility.

# **Specific Target Organ Toxicity**

#### Single exposure

Remarks : The substance or mixture is not classified as specific target organ

toxicant, single exposure.

# Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ

toxicant, repeated exposure.

#### Other toxic properties

#### **Aspiration hazard**

No aspiration toxicity classification,

# 11.2. Information on other hazards

# Data for the product

Teratogenicity

#### **Endocrine disrupting properties**

No information available about endocrine disruption properties for human health. Assessment

# SECTION 12: Ecological information

# 12.1. Toxicity

Component:	2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0		
	Acute toxicity			
	Fish			
LC50	: 6,010 mg/l (Ictalurus punctatus; 96 h) (fl Test Guideline 203)	low-through test; OECD		
	Toxicity to daphnia and other aquatic invertebrates			
EC50	: 1,982 mg/l (Daphnia magna (Water flea); 48 h) (static test; OECD Test Guideline 202)			
	algae			
EC50	<ul> <li>&gt; 100 mg/l (Desmodesmus subspicatus test; OECD Test Guideline 201)</li> </ul>	(green algae); 96 h) (static		
	Bacteria			
IC50	: > 5000 mg/l (Bacteria; 16 h) (static test)			

# 12.2. Persistence and degradability

Component:	2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0
	Persistence and degradability	
	Persistence	
Result	: No data available	
	Biodegradability	
Result	: 79.4 % (activated sludge; Related to: C0 theoretical value).; Exposure Time: 12 d	
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301B)Readily biodegradable.

# 12.3. Bioaccumulative potential

Component:	2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0
	Bioaccumulation	

: log Kow -0.54 Result

: BCF: < 100; log Pow < 1

Bioaccumulation is not expected.

# 12.4. Mobility in soil

Component:	2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0
	Mobility	

: Highly mobile in soils

#### 12.5. Results of PBT and vPvB assessment

Data for the product		
	Results of PBT and vPvB assessmer	nt
Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
Component:	2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0
	Results of PBT and vPvB assessmer	nt
Result	: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).	

# 12.6. Endocrine disrupting properties

# Data for the product

potential

Endocrine disrupting : No information available about endocrine disruption properties for environment.

# 12.7. Other adverse effects

Component:	2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0
	Additional ecological information	

Result : Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special

disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with

Directive 2008/98/EC on waste as lastly amended.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be

recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

European Waste Catalogue Number No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation

with the regional waste disposer.

# **SECTION 14: Transport information**

Not dangerous goods for ADR, RID, IMDG and IATA.

# 14.1. UN number or ID number

Not applicable.

# 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

Not applicable.

#### 14.4. Packaging group

Not applicable.

# 14.5. Environmental hazards

Not applicable.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

#### Component: 2-(2-Ethoxyethoxy)ethanol CAS-No. 111-90-0

EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended

; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, : ; Not listed Marketing and Use Restrictions (Regulation 1907/2006/EC)

# Component:

# 2-(2-Ethoxyethoxy)ethanol

CAS-No. 111-90-0

EU. Regulation No. 1223/2009 on cosmetic products, Annex III: List of Restricted Substances in Cosmetic Products

Reference number: 297; Listed

# Component:

# 2-(2-Ethoxyethoxy)ethanol

CAS-No. 111-90-0

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I

; The substance/mixture does not fall under this legislation.

Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), ÜBA, BAnz AT), as amended

Germany. Ordinance on : WGK 1: slightly hazardous to water: 101

#### **Notification status**

#### 2-(2-Ethoxyethoxy)ethanol:

Regulatory List Notification Notification number EINECS YES 203-919-7

(7)-97

DSL YES

KECI (KR) YES KE-10467 ENCS (JP) YES (2)-422 ENCS (JP) YES (7)-97 ISHL (JP) YES (2)-422

ISHL (JP) YES YES INSQ **IECSC** YES ONT INV YES **TCSI** YES PICCS (PH) YES YES **TSCA VN INVL** YES

TH INV YES 2909.44
TH INV YES 55-1-00705

AU AIICL YES NZIOC YES

#### 15.2. Chemical safety assessment

No data available

# **SECTION 16: Other information**

## **Abbreviations and Acronyms**

AU AIICL Australia. Industrial Chemicals Act (AIIC) List

**BCF** bioconcentration factor

BOD biochemical oxygen demand
CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

CMR carcinogenic, mutagenic or toxic to reproduction

COD chemical oxygen demand DNEL derived no-effect level

DSL Canada. Environmental Protection Act, Domestic Substances List EINECS European Inventory of Existing Commercial Chemical Substances

**ELINCS** European List of Notified Chemical Substances

ENCS (JP) Japan. Kashin-Hou Law List

GHS Globally Harmonized System of Classification and Labelling of

Chemicals

IECSC China. Inventory of Existing Chemical Substances
INSQ Mexico. National Inventory of Chemical Substances

ISHL (JP) Japan. Inventory of Industrial Safety & Health

KECI (KR) Korea. Existing Chemicals Inventory

**LC50** median lethal concentration

**LOAEC** lowest observed adverse effect concentration

LOAEL lowest observed adverse effect level

LOEL lowest observed effect level

NDSL Canada. Environmental Protection Act. Non-Domestic Substances

List

**NLP** no-longer polymer

NOAEC no observed adverse effect concentration

NOAEL no observed adverse effect level NOEC no observed effect concentration

NOEL no observed effect level

**NZIOC** New Zealand. Inventory of Chemicals

OECD Organisation for Economic Cooperation and Development

OEL occupational exposure limit
ONT INV Canada. Ontario Inventory List
PBT persistent, bioaccumulative and toxic

PHARM (JP) Japan. Pharmacopoeia Listing

PICCS (PH) Philippines. Inventory of Chemicals and Chemical Substances

PNEC predicted no-effect concentration
REACH Auth. No.: REACH Authorisation Number

**REACH AuthAppC. No.** REACH Authorisation Application Consultation Number

UK REACH Auth. No.: UK REACH Authorisation Number

UK REACH AuthAppC.

No.

UK REACH Authorisation Application Consultation Number

UK REACH-Reg.No
UK REACH Registration Number
specific target organ toxicity
substance of very high concern

TCSI Taiwan. Existing Chemicals Inventory

**TH INV** Thailand. Existing Chemicals Inventory from FDA

TSCA US. Toxic Substances Control Act

**UVCB** substance of unknown or variable composition, complex reaction

products or biological materials

**VN INVL** Vietnam. National Chemical Inventory **vPvB** very persistent and very bioaccumulative

**Further information** 

Key literature references :

and sources for data

Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were

used to create this safety data sheet.

Methods used for : The classification for human health, physical and chemical

product classification hazards and environmental hazards were derived from a

combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety

Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of

hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is

correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and

does not constitute a legal relationship.

The information contained in this Safety Data Sheet 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.

|| Indicates updated section.