



SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

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

1.1 Product identifier

Trade name: **N8 500ML TRAFFIC LN CLNR - (HEAVY STAIN)**

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

Relevant identified uses: traffic lane cleaner.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Manufacturer: **Rug Doctor Ireland**

Address: 29 Earlsfort Terrace, Dublin 2, D02 AY28, Ireland

Telephone: 1800 932 096

E-mail address for a competent person responsible for SDS: biuro@thetaconsulting.pl

1.4 Emergency telephone number

112, National Poisons Information Centre: (01) 809 2566

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Product is not classified as dangerous to human health and for the environment.

2.2 Label elements

Hazard pictograms and signal words

None.

Names of dangerous components placed on the label

None.

Hazard statements

None.

Precautionary statements

None.

2.3 Other hazards

The components of this mixture do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

CAS number: 112-34-5	<u>2-(2-butoxyethoxy)ethanol</u> ¹⁾²⁾	< 1 %
EC number: 203-961-6	Eye Irrit. 2 H319	
Index number: 603-096-00-8		
REACH number:		
01-2119475104-44-XXXX		



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- 1) Substance with European Union workplace exposure limits.
- 2) Substance with Ireland workplace exposure limits.

Components according to Reg. No 648/2004/EC on detergents:

nonionic surfactants (< 5 %),

Full text of each relevant H phrase is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: wash the contaminated skin with plenty of water. Consult a doctor if disturbing symptoms appear.

Eye contact: wash the contaminated eye with plenty of water for 10-15 minutes. Keep eyelids wide open. Avoid strong stream of water – risk of damage of the cornea. Consult an ophthalmologist if disturbing symptoms appear.

Ingestion: rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor if disturbing symptoms appear, show the container or label.

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

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: redness, burning sensation, possible allergic reaction in susceptible individuals.

Eye contact: tearing, burning sensation, irritation.

Ingestion: possible stomach ache, nausea, vomiting, diarrhea, irritation of throat and esophagus.

Inhalation: exposure to high concentrations of product vapours may lead to headaches, nausea.

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. Symptomatic treatment.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing media: 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 harmful gases of carbon oxides and other hazardous, unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. In case of fire cool endangered containers with water fog from safe distance. In case of fire, cool endangered containers with water spray from a safe distance. Collect the used extinguishing media.

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. In case of a large release, isolate the exposed area. Ensure that only the trained personnel removes the effects of the accident. Ensure adequate ventilation. Avoid contact with eyes and skin. Use personal protective equipment. Immediately wipe spilled product – may produce extremely slippery surfaces.



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6.2 Environmental precautions

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 product using liquid binding materials (e.g. sand, earth, universal binding substances, silica etc.) and place it in correctly labelled containers. Treat collected material as waste. Flush product residues with water. Clean and ventilate contaminated place.

6.4 Reference to other sections

Appropriate conduct with waste 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 eyes and skin contamination. Wash hands carefully before breaks and after work. Do not inhale product vapours. Ensure adequate ventilation of the area in which product is stored and used. Keep the unused containers tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original, tightly sealed containers. Store in a dry, cool and well ventilated place. Keep away from food, foodstuffs, animal feed and drinking water. Protect from heat, light and direct sunlight. Do not store with incompatible materials (see subsection 10.5). Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

European Union:

Specification	TWA 8 hour	STEL 15 min
2-(2-butoxyethoxy)ethanol [CAS 112-34-5]	67.5 mg/m ³	101.2 mg/m ³

Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC, 2017/164/EU, 2019/1831/EU.

Ireland:

Specification	TWA 8 hour	STEL 15 min
2-(2-butoxyethoxy)ethanol [CAS 112-34-5]	67.5 mg/m ³	101.2 mg/m ³

Legal Basis: Chemical Agents and Carcinogens Code of Practice 2021.

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

Recommended control procedures

Procedures Concerning the control over the dangerous components concentrations in the air and control over the air quality in the workplace - if they are available and Justified for the position - in Accordance with the European Standards, with the conditions within the exposure place and a proper test methodology adapted to the working conditions.

DNEL for 2-(2-butoxyethoxy)ethanol [CAS 112-34-5]

Exposure route	Exposure scenario	DNEL (workers)
skin	Long-term, systemic effects	20 mg/kg
inhalation	Long-term, systemic effects	67.5 mg/m ³
inhalation	Long-term, local effects	67.5 mg/m ³
inhalation	Short-term, local effects	101.2 mg/m ³



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Exposure route	Exposure scenario	DNEL (consumers)
inhalation	Short-term, local effects	7.5 mg/m ³
inhalation	Long-term, systemic effects	34 mg/m ³
skin	Long-term, systemic effects	10 mg/kg
inhalation	Long-term, local effects	34 mg/m ³
ingestion	Long-term, systemic effects	1.25 mg/kg/d

PNEC for 2-(2-butoxyethoxy)ethanol [CAS 112-34-5]

PNEC	Value
marine water	0.1 mg/l
freshwater	1 mg/l
marine water sediment	0.44 mg/kg d.w.
freshwater sediment	4.4 mg/kg d.w.
soil	0.32 mg/kg d.w.
STP	200 mg/l
secondary poisoning	56 mg/kg
intermittent releases	3.9 mg/l

8.2 Exposure controls

Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Ensure adequate ventilation. Avoid skin and eye contamination. Before break and after work wash hands carefully.

Personal protective equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand protection

In case of frequent or prolonged contact with the product recommended the protective gloves (EN 374). Material for gloves select individually at the workplace. In case of a short exposure, use protective gloves with 2nd or higher level of effectiveness (breakthrough time > 30 min). In case of a long exposure, use protective gloves with 6th level of effectiveness (breakthrough time > 480 min).

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Skin and body protection

Wear protective clothing adequate to performed task and made of an adequate material.

Eyes protection

Wear tightly fitting protective glasses if there is a risk of eye contamination (EN 166).

Respiratory protection

Respiratory protection is not required when product is used as intended.

Thermal hazard

Not applicable.



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Environmental exposure controls

Do not allow large quantities of the product to contaminate ground water, drains, sewages or soil. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	according to assortment
Odour:	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	not applicable, incombustible
Lower and upper explosion limit:	not determined
Flash point:	not determined
Auto-ignition temperature:	not applicable, product is not subject to auto-ignition
Decomposition temperature:	not determined
pH:	9,5 – 9,9
Kinematic viscosity:	not determined
Solubility:	insoluble in water
Partition coefficient n-octanol/water (log value):	not determine
Vapour pressure:	not determined
Density and/or relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2 Other information

No additional test results.

Section 10: Stability and reactivity

10.1 Reactivity

Feebly reactive product. It does not undergo a dangerous polymerization. See also subsections 10.3-10.5.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

10.4 Conditions to avoid

Avoid direct exposure to sunlight.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Not known.



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Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

Toxicity of components

2-(2-butoxyethoxy)ethanol [CAS 112-34-5]

LD ₅₀ (rat, oral)	> 2000 mg/kg
LD ₅₀ (mouse, oral)	2410 mg/kg [OECD 401]
LD ₅₀ (rabbit, skin)	2764 mg/kg [OECD 402]
LC ₅₀ (rat, inhalation)	> 29 ppm/2 h [OECD 403]

Toxicity of mixture

Acute toxicity

Based on available data, the classification criteria are not met. The acute toxicity estimate (ATE_{mix}) for the classification of a substance in a mixture was determined using the appropriate conversion value from Table 3.1.2 in Annex I to CLP as amended.

ATE _{mix} (oral):	> 2000 mg/kg
ATE _{mix} (dermal):	> 2000 mg/kg
ATE _{mix} (inhalation):	> 20 mg/kg

Skin corrosion/irritation

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

Serious eye damage/irritation

Based on 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

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

Aspiration hazard

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

Information on likely routes of exposure

Routes of exposure: skin contact, eye contact, ingestion, inhalation. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

See subsection 4.2.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

See subsection 4.2.



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11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Other information

No data.

Section 12: Ecological information

12.1 Toxicity

Toxicity of components

2-(2-butoxyethoxy)ethanol [CAS 112-34-5]

Toxicity for fish	LC ₅₀	1300 mg / l / 96 h / <i>Lepomis macrochirus</i> (OECD 203)
Toxicity for invertebrates	EC ₅₀	> 100 mg / l / 48 h / <i>Daphnia magna</i> (Directive 67/548/EEC, Annex V, C.2.)
Toxicity for algae	EC ₅₀	> 100 mg / l / 96 h / <i>Scenedesmus subspicatus</i> (OECD 201)
Toxicity for bacteria	EC ₁₀	> 1995 mg / l / 0,5 h / activated sludge(OECD 209)

Toxicity of mixture

Product is not classified as hazardous for the environment.

12.2 Persistence and degradability

Surfactants used in the product meet the biodegradability requirements in accordance with Regulation (EC) no 648/2004/EC as amended.

Data for components:

2-(2-butoxyethoxy)ethanol [CAS 112-34-5]

Biodegradation: 80-90 %/28 days (OECD 301C)

12.3 Bioaccumulative potential

Bioaccumulation is not expected.

12.4 Mobility in soil

Product is mobile in water and soil. Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

Components of this mixture do not meet the criteria of PBT or vPvB substances.

12.6 Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

12.7 Other adverse effects

The mixture is not classified as hazardous to the ozone layer.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the product: disposal in accordance with the local legislation. Store residues in original containers. Recycle, if possible. Waste code should be given in the place of waste formation.



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Disposal methods for used packing: reuse/recycle/eliminate empty containers in accordance with the legislation in force. Only containers completely empty can be recycled.

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

Section 14: Transport information

14.1 UN number or ID number

Not applicable, product is not classified as dangerous during transportation by land, air or sea.

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

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

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, Authorization 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 as amended.

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 as amended.

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Regulation (EU) No 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Regulation 648/2004/EC of the European Parliament and of the Council of 31 March 2004 on detergents as amended.



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Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Prohibitions and restrictions relating to placing on the market (Annex XVII): 2-(2-butoxyethoxy)ethanol [CAS 112-34-5].

15.2 Chemical safety assessment

A Chemical Safety Assessment was not carried out for substances contained in this mixture.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H319 Causes serious eye irritation.

Clarification of aberrations and acronyms

Eye Irrit. 2 Serious eye damage/eye irritation, category 2

PBT Persistent, Bioaccumulative and Toxic substance

vPvB Very Persistent, very Bioaccumulative substance

TWA Time Weighted Average

STEL Short-Term Exposure Limits

DNEL Derived No-Effect Level

PNEC Predicted No-Effect Concentration

LC₅₀ Median lethal concentration

EC₅₀ Concentration at which a 50 % inhibition of growth rate is observed

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and sources of data

This SDS was prepared on the basis of sheets of the individual components, literature data, online databases (eg. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

Procedures used to classify the mixture

Classification was based on data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

Other data

Changes: sections 1-16

Safety Data Sheet made by: **THETA** Consulting Sp. z o.o.

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.