

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 PRODUCT IDENTIFIER

Trade Name

PROLUX VETRO

Product identifier (art. 18, par. 3, let. a)

Name: see trade name (mixture)

Identification number: mixture, n.a.

For the substances that contributes to the classification: see section 3

The substances in the mixture that contribute to the classification according to art. 18, par. 3 letter b) of Reg. (EC) 1272/08 are highlighted in the section 3.

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Description, uses e function

Glasses detergent without halos

Relevant uses

SU21 - Consumer uses: private households.

PC35 - Washing and cleaning products (including solvent based products).

SU22 - Professional uses: public domain.

Uses advised against

no one in particular

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company identification

Bettari Detergenti Srl

Via Galileo Galilei, 2 - 25020 PONCARALE (BS) - ITALIA

www.bettari.it
info@bettari.it

Tel. 030/2540330

Fax 030/2540332

E-mail address for a competent person responsible for the safety data sheet

legislazione.technica@bettari.it
1.4 EMERGENCY TELEPHONE NUMBER

Emergency telephone number of the society and/or official advisory body:

NHS Direct (England/Wales): 0845 46 47

NHS 24 (Scotland): 08454 24 24 24

SECTION 2: HAZARDS IDENTIFICATION
2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Skin corrosion/irritation

Skin Irrit. 2

H315

Serious eye damage/eye irritation

Eye Irrit. 2

H319

2.2 LABEL ELEMENTS

Hazard pictograms



Signal word

Attention

Hazard statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statement

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302+P350

IF ON SKIN: Gently wash with plenty of soap and water.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501

Dispose of contents/container to in accordance with local regulation

Supplemental information

CONTAINS (Reg. EC 648/04): sec.15

2.3 OTHER HAZARDS

n.d.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.2 MIXTURES

Name	CAS/CE/ Index/ REACH:	%w/w	Seveso Cat.	M factor	Classification Reg. (EC) 1272/2008	
					category codes, hazard classes, hazard statements	specific concentration limits
2-butoxyethanol	CAS:111-76-2 CE:203-905-0 Index:603-014-00-0 REACH:01-2119475108-36-XXXX	5÷15%	n.a.	acute:n.a. chronic:n.a.	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332	

(*): substance with national/community occupational exposure limit value

You can find the full text of danger H in sec. 16 of the data sheet.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation

Ventilate ambiente. Remove patient from contaminated ambiente and keep him quiet in a ventilated room.

Skin contact

Take off immediately all contaminated clothing. Wash immediately with plenty of water areas of the body that has come in contact with the product, even if only suspected.

Eye contact

Wash thoroughly for several minutes. Remove contact lenses, if present and easy to do. Continue to rinse. If necessary, refer the patient to eye examination.

Ingestion

Do not induce vomiting.
Consult a Poison Control Center.

Personal protective equipment for first aid responders

In case of massive possible contact with the product, wear latex or nitrile gloves and safety glasses.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Contact with eyes causes strong irritation including redness and tearing.
Contact with the skin can cause skin rash.

For information on health effects and symptoms about substances contained: see section 11

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

None in particular.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable The product is not combustible, anyway in case of fire, in accordance with the involved materials, use water spray, carbon dioxide or chemical powder.

Unsuitable no one in particular

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

EXPOSITION HAZARDS IN CASE OF FIRE

Possible formation of carbon monoxide or carbon dioxide (CO – CO₂) and anhydrides (sulphurous - sulphuric). Avoid to breathe fumes.

5.3 ADVICE FOR FIREFIGHTERS

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT

Always wear full fire prevention (protective helmet with visor, fireproof clothing, work gloves and facemask), in compliance with European standards EN 469.

Clothing not conforming to above may not be suitable for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Away from the area affected persons not involved in the emergency intervention.
Avoid contact with skin and eyes; if necessary, wear suitable protective equipment (sect.4).
In case of large amounts, pay attention to the slipperiness of the contaminated areas.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid dispersal of spilt material in sewers. Keep the product away from drains, groundwater and surface water and from soil. If necessary alert the neighbours.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

If necessary, provide to install collection gutter or to cover the drains.
Contain spill with absorbent inert material (sawdust, sand, earth,) or neutralizing (for acid products); pick it up quickly and store it in suitable containers.

6.4 REFERENCE TO OTHER SECTIONS

See section 8 and 13

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

With appropriate use, no special considerations are needed.

Do not handle with bare hands. Do not eat or drink during work. No smoking. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Work in a well-ventilated area.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE

Store in original tightly closed container protected from direct sunlight and heat sources

Store between the following temperatures: -6 e +40 °C

Normal storage conditions without particular incompatibilities

Other information about stability and reactivity: section 10

PACKAGING MATERIALS

Packaged in high density polyethylene (HDPE), polyethylene (PE), polyvinyl chloride (PVC).

STORAGE CLASSES

Seveso Category (Dir. 2012/18/EU):

n.a.

7.3 SPECIFIC END USE(S)

PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities.
 PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities.
 PROC10 - Roller application or brushing. Including cleaning of surfaces.
 PROC11 - Non industrial spraying.
 PROC19 - Hand-mixing with intimate contact and only PPE available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

No data available on the mixture itself. Set out below is information relating to the main substances in the mixture.

2-butoxyethanol	Occupational exposure limit values: OEL (8h): 20 ppm / 98 mg/m ³ OEL (short term): 50 ppm / 246 mg/m ³ WEL (8h): 25 ppm / 123 mg/m ³ WEL (short term): 50 ppm / 246 mg/m ³ National/community biological limit values: n.d. DNEL: chronic effects systemic (workers - inhalation): 98 mg/m ³ acute effects systemic (workers - inhalation): 1091 mg/m ³ acute effects local (workers - inhalation): 246 mg/m ³ chronic effects systemic (workers - dermal): 125 mg/kg bw/day acute effects systemic (workers - dermal): 89 mg/kg bw/day chronic effects systemic (consumers - inhalation): 59 mg/m ³ acute effects systemic (consumers - inhalation): 426 mg/m ³ acute effects local (consumers - inhalation): 147 mg/m ³ chronic effects systemic (consumers - dermal): 75 mg/kg bw/day acute effects systemic (consumers - dermal): 89 mg/kg bw/day chronic effects systemic (consumers - oral): 6,3 mg/kg bw/day acute effects systemic (consumers - oral): 26,7 mg/kg bw/day PNEC: fresh water: 8,8 mg/l marine water: 0,88 mg/l water intermittent releases: 9,1 mg/l STP: 463 mg/l sediments (fresh water): 34,6 mg/kg sediments (marine water): 3,46 mg/l soil: 3,13 mg/kg
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The list of data sources in the table above is available at the link below:

<http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Internationale-Grenzwerte-für-chemische-Substanzen-limit-values-for-chemical-agents/Bibliography/index-2.jsp>

8.2 EXPOSURE CONTROLS

Appropriate engineering controls The employer would develop measures of risk reduction and risk management prescribed in compliance with its obligations under Directives 98/24 / EC and 2004/37 / EC relating to the development of working methods and structures appropriate of technical control and the use of adequate equipment and materials, on the basis of the identified uses. These include for example the implementation of collective protection measures at source, and individual protection measures including the provision of personal protective equipment.

Eye/face protection Not required under normal conditions.; we generally recommend the use of protective eyewear in the manual operations

Skin protection Not required under normal conditions, it is still recommended to use generic work clothes in the manual operations. Take care to change clothing before meals and after work shift.

Hand protection Use latex gloves, neoprene, nitrile, PVC, rubber,

Respiratory protection Not required under normal conditions.

Termic hazards n.a.

Other indication Observe the usual standards of environmental hygiene

Environmental exposure controls ERC8a - Wide dispersive indoor use of processing aids in open systems.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid Light blue
Odour	Glycols
pH (t.q.)	7,0 ± 0,5

Flash point	n.i	
Relative density	0,99 ± 0,05	kg/l
Water solubility	Soluble	

9.2 OTHER INFORMATION

Alkalinity as % Na ₂ O	-	
Dry residue at 105°C	0,3 ± 1,0	%
Other information	The physical-chemical data not reported above have not been determined as not fundamental for the characterization of the mixture	

SECTION 10: STABILITY AND REACTIVITY
10.1 REACTIVITY

No hazardous reactions if are respected indication/notes for storage and handling.

10.2 CHEMICAL STABILITY

The product is stable if are respected indication /notes for storage and handling.

Exposure to direct sunlight can produce colour alteration.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

None in particular.

10.4 CONDITIONS TO AVOID

Avoid exposure to direct light.

Avoid exposure to extreme temperature.

Avoid mixing with other chemicals.

10.5 INCOMPATIBLE MATERIALS

Cationic products

Other chemicals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

If the product is involved in a fire may develop carbon monoxide or carbon dioxide (CO – CO₂) and anhydrides (sulphurous - sulphuric).

SECTION 11: TOXICOLOGICAL INFORMATION

ATEmix (oral) =	5000	mg/kg
ATEmix (dermal) =	11000	mg/kg
ATEmix (inhalation) =	110	mg/l (vapour)

No toxicological data available on the mixture.

Set out below is the toxicological information relating to the main substances in the mixture.

For exposure health hazards: see section 2 and section 4.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

2-butoxyethanol	Oral LD50 rat (mg/kg/24h bw):1322-2301 Dermal LC50 rat/rabbit (mg/kg/24h bw):>2000 Inhalation LD50 rat (mg/l/4h):n.d. Skin corrosion/irritation:not irritant Serious eye damage/irritation:irritant Respiratory/skin sensitization:not sensitizer Mutagenicità delle cellule geminali:not mutagenic Carcinogenicity:not cancerogenic Reproductive toxicity:not toxic for reproduction Specific target organ toxicity (STOT) single or repeated:n.d. Aspiration hazard:n.d.
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SECTION 12: ECOLOGICAL INFORMATION

Use according to good working practices, avoiding contamination of waterways and release to the environment.

The containers are recyclable.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Reg. EC 648/04 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

No ecotoxicological data available on the mixture itself.

Set out below is the ecological information relating to the main substances in the mixture.

12.1 TOXICITY

2-butoxyethanol	LC50 fish (mg/l/96h):1464 EC50 crustaceans (mg/l/48h):1390-1720 ErC50 algae (mg/l/72-96h):729-1140 NOEC fish (mg/l):> 100 NOEC crustaceans (mg/l):100 NOEC algae (mg/l):88
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12.2 PERSISTENCE AND DEGRADABILITY

2-butoxyethanol	O2 consumption: 26% after 5 days O2 consumption: 88% after 20 days readily biodegradable COD (mgO2/l):2,25 BOD5 (mgO2/l):0,59 BOD5/COD:0,26222222222222
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12.3 BIOACCUMULATIVE POTENTIAL

2-butoxyethanol	n.d. Log Kow (octanol/water):0,81 BCF fish:n.d.
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12.4 MOBILITY IN SOIL

2-butoxyethanol	Henry Law constant (H): 0,041 Pa*m3/mol
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12.5 RESULTS OF PBT AND vPvB ASSESSMENT

2-butoxyethanol	this substance is not a PBT or a vPvB
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12.6 OTHER ADVERSE EFFECTS

2-butoxyethanol	n.d.
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SECTION 13: DISPOSAL CONSIDERATIONS
13.1 WASTE TREATMENT METHODS

The generation of waste should be avoided or minimized where possible.

Product

Do not dispose of the product if not with the proper precautions.

Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging

Care should be taken when handling emptied containers that have not been cleaned or rinsed out: may retain some product residues; avoid dispersion and runoff into waterways, drains and sewers and the contact with the ground.

Do not dispose of the container if not in a safe way.

L'incenerimento o la messa in discarica deve essere preso in considerazione solo quando il riciclaggio non è praticabile.

Disposal of contaminated packaging must be carried all times comply with the law on environmental protection and waste disposal legislation and the requirements of any regional local authority requirements.

SECTION 14: TRANSPORT INFORMATION

Not dangerous goods as defined by the transport regulations.

- 14.1 UN/KEMLER NUMBER** - / -
14.2 UN PROPER SHIPPING NAME -
14.3 TRANSPORT HAZARD CLASS(ES) -
14.4 PACKING GROUP -
14.5 ENVIRONMENTAL HAZARDS -
14.6 SPECIAL PRECAUTIONS FOR USER

ADR/RID	Codice di restrizione in galleria: -	Categoria Quantità limitate per unità di trasporto (1.1.3.6): -	Quantità limitate per unità di collo (3.4): -	Codice E Quantità esenti (3.5): -
IMDG		EMS: -	Quantità limitate per unità di collo (3.4): -	Codice E Quantità esenti per unità di collo (3.5): -
ICAO/IATA		n.d.		

- 14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE** n.d.

SECTION 15: REGULATORY INFORMATION
15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Restrictions relating to the product or contained substances (All. XVII Reg. CE 1907/2006)

n.a.

Substances in Candidate List (art. 59 Reg. CE 1907/2006)

the product does not contain SVHC

Sostanze soggette ad autorizzazione (All. XIV Reg. CE 1907/2006)

the product does not contain SVHC

NC Code (Reg. CEE 2658/87)

3402 2090

Seveso Category (Dir. 2012/18/EU)

n.a.

COV (Dir. 2010/75/EU)

10,00%

Contains (Reg. EC 648/04)

<5%: non-ionic surfactants; perfumes

Contains (Reg. EU 528/12)

n.a.

Other

-

15.2 CHEMICAL SAFETY ASSESSMENT

see annex

SECTION 16: OTHER INFORMATION

Indication of changes

Rev. 02 variation classification dossier; first issue under the All. II of Regulation (EC) No 453/2010

This data sheet replaces and erases the previous revisions.

Indicates information that has changed from previously issued version

Acronyms

n.a.	not applicable
n.d.	not available
ADR	Accord européen relative au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BFC	Bioconcentration Factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service number
CE/EC number	EINECS (European Inventory of existing Commercial Substances) and ELINCS (European List of notified Chemical Substances)
CL50/ LC50	Lethal Concentration 50 (Lethal Concentration to 50 % of a test population)
DL 50/LD50	Lethal Dose 50 (Lethal Dose to 50 % of a test population)
COD	Chemical Oxygen Demand
DNEL	Derived no effect level
EC50	Concentration of a drug that causes 50% of the maximum response
ERC	Environmental Release Classes
EU/UE	European Union
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods code
Kow	Octanol-water partition coefficient
NOEC	No observed effect concentration
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative and toxic
PC	Product categories
PNEC	Predicted no effect concentration
PROC	Process Categories
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses
STOT	Target organ systemic toxicity STOT (RE) Repeated Exposure STOT (SE) Single Exposure
STP	Sewage Treatment Plants
SU	Sector of Use
SVHC	Substances of Very High Concern
WEL	Workplace Exposure Limit
vPvB	Very persistent very Bioaccumulative

Bibliography

Where applicable refer to the following standards and/or bibliographies, and/or databases:

Regulation (EC) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of Chemicals)

Regulation (EC) 1272/2008 CLP (Classification Labelling and Packaging)

Regulation EEC 2658/87 (on the tariff and statistical nomenclature and on the Common Customs Tariff)

Regulation (EC) n. 648 of 31/03/04 (on detergents)

Regulation (EU) n. 528 of 22/05/2012 (concerning the making available on the market and use of biocidal products)

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances)

Direttiva 2010/75/EU (on industrial emissions (integrated pollution prevention and control))

To prepare the data sheet has also referred to the safety data sheets of raw materials.

N.B. - The user should refer to any applicable statutory provision, although not mentioned in the present.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008

Skin Irrit. 2 H315 Calculation method

Eye Irrit. 2 H319

Class, codes of class and danger category, danger statements mentioned in section 3 of the sheet

Skin Irrit. 2 Skin corrosion/irritation

Eye Irrit. 2 Serious eye damage/eye irritation

Acute Tox. 4 Acute toxicity

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Training required

This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

The information provided in this "INFORMATIVE SAFETY CARD" corresponds to the present state of our knowledge and our experience of the product and is not exhaustive. It applies to the product as it meets the specifications. In the case of combination or mixtures, to ensure that no hazard may occur.

It does not avoid, in any way, the user of the product respecting all the legislative, administrative and regulation rules concerning the product, the hygiene and the work security.

ANNEX: EXPOSURE SCENARIOS

 Trade name **PROLUX VETRO**
LEAD SUBSTANCES IDENTIFICATION

Set out below is the substances that contribute to the exposure scenarios of the mixture according to the rules of the Reg. EC 1272/08:

<i>Exposition route</i>	<i>Name</i>	<i>CAS/CE/Index/REACH:</i>
Acute toxicity - inhalation	Not lead substance	
Acute toxicity - swallowing	Not lead substance	
Acute toxicity - dermal	Not lead substance	
Skin corrosion/irritation	2-butoxyethanol	CAS:111-76-2 CE:203-905-0 Index:603-014-00-0 REACH:01-2119475108-36-XXXX
Eyes corrosion Irritation	2-butoxyethanol	CAS:111-76-2 CE:203-905-0 Index:603-014-00-0 REACH:01-2119475108-36-XXXX
Skin sensitisation	Not lead substance	
Respiratory sensitisation	Not lead substance	
Germ cell mutagenicity	Not lead substance	
Carcinogenicity	Not lead substance	
Reproductive toxicity	Not lead substance	
Specific target organ toxicity - single exposure	Not lead substance	
Specific target organ toxicity - repeated exposure	Not lead substance	
Hazardous to the aquatic environment	Not lead substance	

To calculate the risk factor, determine if the operating conditions downstream are safe and whether the measures of risk management are suitable, you can use the tool available at the following website: <http://www.ecetoc.org/tra>

EXPOSURE SCENARIO TITLE

Glasses detergent without halos

USE DESCRIPTORS

Sectors of use:	SU21 - Consumer uses: private households. SU22 - Professional uses: public domain.
Process categories:	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities. PROC8b -Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities. PROC10 - Roller application or brushing. Including cleaning of surfaces. PROC11 - Non industrial spraying. PROC19 - Hand-mixing with intimate contact and only PPE available.
Product category:	PC35 - Washing and cleaning products (including solvent based products).
Environmental release categories:	ERC8a - Wide dispersive indoor use of processing aids in open systems.