SAFETY DATA SHEET
Whiteboard Conditioner 150ml Euro
According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name Whiteboard Conditioner 150ml Euro

Product number 978.598, ZP

Internal identification AWBR150LYR_EU

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

Identified uses Cleaning agent.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier
LYRECO
Rue du 19 mars 1962, F-59770,
Marly,
France
msds@lyreco.com

1.4. Emergency telephone number

Emergency telephone +33 (0) 3 27 23 64 00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Aerosol 3 - H229

Health hazards Eye Irrit. 2 - H319

Environmental hazards Not Classified

2.2. Label elements

Pictogram

Signal word Warning

Hazard statements
H229 Pressurised container: may burst if heated
H319 Causes serious eye irritation.

Precautionary statements
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Detergent labelling < 5% aliphatic hydrocarbons, < 5% EDTA and salts thereof, < 5% halogenated hydrocarbons

Whiteboard Conditioner 150ml Euro

Supplementary precautionary statements P264 Wash contaminated skin thoroughly after handling.
P337+P313 If eye irritation persists: Get medical advice/ attention.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

2-Butoxyethanol **1-5%**

CAS number: 111-76-2 EC number: 203-905-0 REACH registration number: 01-2119475108-36-XXXX

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

1,1,1,2-Tetrafluoroethane (HFC 134a) **1-5%**

CAS number: 811-97-2 EC number: 212-377-0 REACH registration number: 01-2119459374-33-XXXX

Classification
Press. Gas, Liquefied - H280

Petroleum gases, liquefied **1-5%**

CAS number: 68476-85-7 EC number: 270-704-2

Classification
Flam. Gas 1 - H220
Press. Gas, Liquefied - H280

Tetrasodium ethylene diamine tetraacetate **1-5%**

CAS number: 64-02-8 EC number: 200-573-9 REACH registration number: 01-2119486762-27-XXXX

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H332
Eye Dam. 1 - H318
STOT RE 2 - H373

Whiteboard Conditioner 150ml Euro

Morpholine		**<1%**
CAS number: 110-91-8	EC number: 203-815-1	REACH registration number: 01-2119496057-30-0001

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H302
Acute Tox. 3 - H311
Acute Tox. 3 - H331
Skin Corr. 1B - H314
Eye Dam. 1 - H318

Sodium nitrite		**<1%**
CAS number: 7632-00-0	EC number: 231-555-9	REACH registration number: 01-2119471836-27-XXXX
M factor (Acute) = 1		

Classification
Ox. Sol. 3 - H272
Acute Tox. 3 - H301
Aquatic Acute 1 - H400

Sodium hydroxide		**<1%**
CAS number: 1310-73-2	EC number: 215-185-5	

Classification
Skin Corr. 1A - H314
Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.

Skin contact Rinse with water.

Eye contact Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Whiteboard Conditioner 150ml Euro

Inhalation Spray/mists may cause respiratory tract irritation.

Ingestion Due to the physical nature of this product, it is unlikely that ingestion will occur.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact Irritating to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Risk of explosion.

6.2. Environmental precautions

Environmental precautions Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Whiteboard Conditioner 150ml Euro

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid discharge to the aquatic environment. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. Avoid contact with eyes. Avoid inhalation of vapours and spray/mists.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50°C/122°F.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

2-Butoxyethanol

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³
Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³
Sk

1,1,1,2-Tetrafluoroethane (HFC 134a)

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 4240 mg/m³

Petroleum gases, liquefied

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³
Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

Morpholine

Long-term exposure limit (8-hour TWA): WEL 10 ppm 36 mg/m³
Short-term exposure limit (15-minute): WEL 20 ppm 72 mg/m³
Sk

Sodium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

8.2. Exposure controls

Whiteboard Conditioner 150ml Euro

Protective equipment

Appropriate engineering controls	Provide adequate ventilation.
Eye/face protection	Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific requirements are anticipated under normal conditions of use. No specific hand protection recommended.
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
Respiratory protection	No specific requirements are anticipated under normal conditions of use. No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Keep container tightly sealed when not in use. Avoid release to the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Not known.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Bulk density	Not available.
Solubility(ies)	Not available.
Partition coefficient	Not available.

Whiteboard Conditioner 150ml Euro

Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid exposing aerosol containers to high temperatures or direct sunlight. Pressurised container: may burst if heated

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50}) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 20,599.47

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 17,764.65

Acute toxicity - inhalation

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 194.85

ATE inhalation (dusts/mists mg/l) 109.35

Skin corrosion/irritation

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

Whiteboard Conditioner 150ml Euro

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation	Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	Contains a substance which has been shown to cause cancer in laboratory animals. IARC Group 2A Probably carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Based on available data the classification criteria are not met.

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Spray/mists may cause respiratory tract irritation.
Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	Irritating to eyes.
Route of entry	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.

Toxicological information on ingredients.

2-Butoxyethanol

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,746.0
Species	Rat
Notes (oral LD_{50})	REACH dossier information. Harmful if swallowed.
ATE oral (mg/kg)	1,746.0

Whiteboard Conditioner 150ml Euro

Acute toxicity - dermal

Notes (dermal LD_{50})	cATpE: Converted Acute Toxicity Point Estimate. Harmful in contact with skin.
ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

Notes (inhalation LC_{50})	cATpE: Converted Acute Toxicity Point Estimate. Harmful if inhaled.
ATE inhalation (vapours mg/l)	11.0

Skin corrosion/irritation

Animal data	Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Dose: 0.1 mL, 24 hours, Rabbit Causes serious eye irritation.

Skin sensitisation

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	NOAEC 125 ppm, Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility	Two-generation study - NOAEL 720 mg/kg/day, Oral, Mouse P REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 50 ppm, Inhalation, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL <69 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Petroleum gases, liquefied

Toxicological effects	Not regarded as a health hazard under current legislation.

Germ cell mutagenicity

Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Whiteboard Conditioner 150ml Euro

Carcinogenicity

Carcinogenicity	NOAEL 10000 ppm, Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility	Fertility - NOAEC 9000 ppm, Inhalation, Rat F1 REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Developmental toxicity: - NOAEC: 10426 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEC 10000 ppmV/4hr/day, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Tetrasodium ethylene diamine tetraacetate

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,780.0
Species	Rat
Notes (oral LD_{50})	Supplier's information. Harmful if swallowed.
ATE oral (mg/kg)	1,780.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} dust/mist mg/l)	1.1
Species	Rat
Notes (inhalation LC_{50})	Supplier's information. Harmful if inhaled.
ATE inhalation (dusts/mists mg/l)	1.1

Skin corrosion/irritation

Animal data	Dose: 0.5 g, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Skin sensitisation

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Whiteboard Conditioner 150ml Euro

Carcinogenicity

Carcinogenicity	NOAEL >500 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility	Multi-generation study - NOAEL >250 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: >1374 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
Target organs	Respiratory tract

Aspiration hazard

Aspiration hazard	Not relevant. Solid.

Morpholine

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,900.0
Species	Rat
Notes (oral LD_{50})	Supplier's information. Harmful if swallowed.
ATE oral (mg/kg)	1,900.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	500.0
Species	Rabbit
Notes (dermal LD_{50})	Supplier's information. Toxic in contact with skin.
ATE dermal (mg/kg)	500.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	8.0
Species	Rat
Notes (inhalation LC_{50})	Supplier's information. Toxic if inhaled.
ATE inhalation (vapours mg/l)	8.0

Skin corrosion/irritation

Animal data	Dose: 0.5 mL, 3 minutes, Rabbit Erythema/eschar score: Severe erythema (beef redness) to eschar formation preventing grading of erythema (4). Oedema score: Severe oedema - raised more than 1 mm and extending beyond area of exposure (4). REACH dossier information. Corrosive.

Whiteboard Conditioner 150ml Euro

Serious eye damage/irritation

Serious eye damage/irritation	Corrosive to skin. Corrosivity to eyes is assumed.

Skin sensitisation

Skin sensitisation	Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	DNA damage and/or repair: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	NOAEC >543 mg/m³, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - development	REACH dossier information. Based on available data the classification criteria are not met. Maternal toxicity: - NOAEL: 75 mg/kg/day, Oral, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	LOAEL 500 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Sodium nitrite

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	180.0
Species	Rat
Notes (oral LD_{50})	REACH dossier information. Toxic if swallowed.
ATE oral (mg/kg)	180.0

Germ cell mutagenicity

Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	NOAEL 150 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
IARC carcinogenicity	IARC Group 2A Probably carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility	Fertility - NOAEL >370 mg/kg/day, Oral, Mouse P REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 500 mg/l, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Whiteboard Conditioner 150ml Euro

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 10 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant. Solid.

Sodium hydroxide

Skin corrosion/irritation

Skin corrosion/irritation Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Corrosive to skin. Corrosivity to eyes is assumed.

Skin sensitisation

Skin sensitisation Patch test - Human: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant. Solid.

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

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

Ecological information on ingredients.

2-Butoxyethanol

Toxicity Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

Acute toxicity - fish LC_{50}, 96 hours: 1474 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 1550 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC_{50}, 72 hours: 911 mg/l, Pseudokirchneriella subcapitata

Chronic toxicity - fish early life stage NOEL, 21 days: >100 mg/l, Brachydanio rerio (Zebra Fish)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 100 mg/l, Daphnia magna

Petroleum gases, liquefied

Whiteboard Conditioner 150ml Euro

Toxicity	Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.
Acute toxicity - fish	LC_{50}, 96 hours: 147.54 mg/l, Freshwater fish Estimated value.
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 16.33 mg/l, Daphnia magna Estimated value.
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 11.89 mg/l, Freshwater algae Estimated value.

Tetrasodium ethylene diamine tetraacetate

Toxicity	Based on available data the classification criteria are not met.
Acute toxicity - fish	LC_{50}, 96 hours: 121 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hours: 625 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 2.77 mg/l, Scenedesmus subspicatus
Chronic toxicity - fish early life stage	NOEC, 35 days: >25.7 mg/l, Brachydanio rerio (Zebra Fish)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 25 mg/l, Daphnia magna

Morpholine

Toxicity	Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.
Acute toxicity - fish	LC_{50}, 96 hours: 179 mg/l, Marinewater fish
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hours: 101 mg/l, Daphnia magna

Sodium nitrite

Toxicity	Aquatic Acute 1 - H400 Very toxic to aquatic life.
Acute aquatic toxicity	
$LE(C)_{50}$	$0.1 < L(E)C50 \leq 1$
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 0.54-26.3 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 15.4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: >100 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EC_{50}, 48 hours: 281 mg/l, Spirostomum ambiguum

Whiteboard Conditioner 150ml Euro

Chronic toxicity - fish early life stage	NOEC, 29 days: 1.05 mg/l, Cyprinus carpio (Common carp)
Chronic toxicity - aquatic invertebrates	NOEC, 80 days: 9.86 mg/l, Penaeus monodon

Sodium hydroxide

Toxicity	The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 40.4 mg/l, Ceriodaphnia dubia

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

2-Butoxyethanol

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	Water - Degradation 90.4%: 28 days

Petroleum gases, liquefied

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	Water - Degradation 100%: 385.5 hours

Tetrasodium ethylene diamine tetraacetate

Persistence and degradability	Not readily biodegradable.
Phototransformation	Water - DT_{50} : 2.12 hours
Biodegradation	Water - Degradation <10%: 28 days

Morpholine

Persistence and degradability	The substance is readily biodegradable.
Phototransformation	Water - DT_{50} : 2.79 hours
Biodegradation	Water - Degradation 93%: 25 days

Sodium nitrite

Persistence and degradability	The product contains only inorganic substances which are not biodegradable.

Sodium hydroxide

Whiteboard Conditioner 150ml Euro

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

2-Butoxyethanol

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Kow: 0.81

Petroleum gases, liquefied

Bioaccumulative potential No data available on bioaccumulation.

Tetrasodium ethylene diamine tetraacetate

Bioaccumulative potential BCF: 1.1-1.8, Lepomis macrochirus (Bluegill) Bioaccumulation is unlikely.

Morpholine

Bioaccumulative potential BCF: <2.8, Cyprinus carpio (Common carp) Bioaccumulation is unlikely.

Partition coefficient log Pow: -2.55

Sodium nitrite

Bioaccumulative potential No data available on bioaccumulation.

Sodium hydroxide

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Ecological information on ingredients.

2-Butoxyethanol

Mobility The product is miscible with water and may spread in water systems.

Surface tension 29.53 mN/m @ 20°C

Petroleum gases, liquefied

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Tetrasodium ethylene diamine tetraacetate

Mobility The product is soluble in water.

Adsorption/desorption coefficient Water - Log Koc: 3.02 @ 20°C Estimated value.

Morpholine

Mobility The product is soluble in water.

Adsorption/desorption coefficient Water - Koc: 0.2401 @ 20°C Estimated value.

Henry's law constant 0.0116 Pa m³/mol @ 25°C

Sodium nitrite

Mobility The product is soluble in water.

Sodium hydroxide

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

2-Butoxyethanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Petroleum gases, liquefied

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Tetrasodium ethylene diamine tetraacetate

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Morpholine

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Sodium nitrite

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Sodium hydroxide

Results of PBT and vPvB assessment Not applicable. Substance is inorganic.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

Whiteboard Conditioner 150ml Euro

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.2

ADR/RID classification code 5A,5O

ADR/RID label 2.2

IMDG class 2.2

ICAO class/division 2.2

ADN class 2.2

Transport labels

14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ADN packing group None

ICAO packing group None

Whiteboard Conditioner 150ml Euro

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS	F-D, S-U
ADR transport category	3
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits. The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
EU legislation	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) (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. 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 (as amended). Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Eye Irrit. 2 - H319: : Calculation method. Aerosol 3 - H229: : Expert judgement.
Training advice	Read and follow manufacturer's recommendations.
Issued by	Toni Ashford
Revision date	21/06/2016
Revision	0

Whiteboard Conditioner 150ml Euro

SDS number 247

Hazard statements in full

H220 Extremely flammable gas.
H226 Flammable liquid and vapour.
H229 Pressurised container: may burst if heated
H272 May intensify fire; oxidiser.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.
H400 Very toxic to aquatic life.