

SAFETY DATA SHEET

Byotrol 4in1 Multipurpose Cleaner & Disinfectant (10-20% dilution)

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

1.1. Product identifier

Product name Byotrol 4in1 Multipurpose Cleaner & Disinfectant (10-20% dilution)

Product number B2047

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

1.3. Details of the supplier of the safety data sheet

Supplier Byotrol plc

Building 303 (Ashton), Thornton Science Park, Pool Lane, Ince, Chester,

CH2 4NU

Tel: +44 (0) 1925 742 000 Fax: +44 (0) 1925 363 099

info@byotrol.com

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

 ${\sf P305+P351+P338\ IF\ IN\ EYES:\ Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove}$

contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention.

P501 Dispose of contents/ container in accordance with national regulations.

Detergent labelling < 5% cationic surfactants, < 5% non-ionic surfactants, < 5% perfumes, Contains

Hydroxyisohexyl 3-cyclohexene carboxaldehyde, Hexyl cinnamal

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

N,N-dimethyldecylamine N-oxide <1%

CAS number: 2605-79-0 EC number: 220-020-5

M factor (Acute) = 1

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400

Didecyldimethylammonium chloride (DDAC)

<1%

Classification

Acute Tox. 3 - H301 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Alkyl (C12-16) dimethylbenzyl ammonium chloride

<1%

(ADBAC/BKC (C12-C16))

Classification

Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Not expected to present a significant inhalation hazard under anticipated conditions of normal

use

Ingestion Do not induce vomiting. Get medical attention if symptoms are severe or persist. Rinse mouth

thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an

unconscious person.

Skin contact Skin irritation should not occur when used as recommended. Wash with plenty of water.

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Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes and get medical attention.

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

General information The product is considered to be a low hazard under normal conditions of use.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2). Powder. Water spray. Alcohol-resistant foam.

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion

products

Toxic gases and fumes may be released in a fire.

5.3. Advice for firefighters

Protective actions during

firefighting

Use fire-extinguishing media suitable for the surrounding fire. Fight fire with normal

precautions from a reasonable distance. Cool containers exposed to heat with water spray

and remove them from the fire area if it can be done without risk.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel In case of fire: Wear self-contained breathing apparatus. Wear protective clothing, gloves, eye

and face protection. Keep unnecessary and unprotected personnel away from the spillage.

Eliminate all sources of ignition. Ventilate closed spaces before entering them.

For emergency responders Wear self-contained breathing apparatus. Wear protective clothing, gloves, eye and face

protection. Dilute with plenty of water. Do not allow uncontrolled discharge of product into the

environment. Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain spillage with sand, earth or other suitable non-combustible material. Dilute with plenty

of water. Contain and dispose of waste according to local regulations.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautionsUse only non-sparking tools. Avoid contact with eyes.

Advice on general Do not eat, drink or smoke when using this product. No specific hygiene procedures

occupational hygiene recommended but good personal hygiene practices should always be observed when working

with chemical products.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Keep containers upright. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. Avoid contact with oxidising

agents. Store at temperatures not exceeding 35°C.

Storage class Unspecified 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

8.2. Exposure controls

Appropriate engineering

controls

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Eye/face protection Chemical splash goggles.

Hand protection Hand protection not required.

Respiratory protection Respiratory protection not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Odour Characteristic.

Odour threshold Not determined.

Melting point Not determined.

Initial boiling point and range Not determined.

Flash point Not determined.

Evaporation rate Not determined.

Evaporation factor Not determined.

Flammability (solid, gas) Not relevant.

Upper/lower flammability or

explosive limits

Not relevant.

Other flammability Not relevant.

Vapour pressure Not determined.

Vapour density Not determined.

Bulk density Not relevant.

Solubility(ies) Soluble in water.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

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Decomposition Temperature Not determined.

Explosive properties Not considered to be explosive.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria

for classification as oxidising.

Comments Information given is applicable to the product as supplied.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

S

Stable at normal ambient temperatures and when used as recommended.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

10.5. Incompatible materials

Materials to avoid Anionics. Hypochlorite. Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

None known.

products

reactions

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects This product is considered non-toxic to humans.

Acute toxicity - oral

ATE oral (mg/kg) 58,571.43

Skin corrosion/irritation
Skin corrosion/irritation

Serious eye damage/irritation

Serious eye damage/irritation Not classified.

Respiratory sensitisation

Respiratory sensitisation Not classified.

Skin sensitisation

Skin sensitisation May cause sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

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Genotoxicity - in vitro

Not classified.

Genotoxicity - in vivo

Not classified.

Carcinogenicity

Carcinogenicity Not classified.

Reproductive toxicity

Reproductive toxicity - fertility Not classified.

Reproductive toxicity -

Not classified.

development

Specific target organ toxicity - single exposure

STOT - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Not classified.

Aspiration hazard

Aspiration hazard Not classified.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity When used as instructed, the product is not considered harmful to aquatic organisms or to

cause long-term adverse effects in the environment.

12.2. Persistence and degradability

Persistence and degradability Not determined.

12.3. Bioaccumulative potential

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility Not determined.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations Do not

discharge into drains or watercourses or onto the ground. Containers with collected spillage

must be properly labelled with correct contents and hazard symbol.

Disposal methodsThe generation of waste should be minimised or avoided wherever possible.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation 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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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SDS number 5237

Hazard statements in full H290 May be corrosive to metals.

H301 Toxic if swallowed. H302 Harmful if swallowed. 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. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.