

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

1.1. Product Identifier

Product name: HYGENEX RECOAT ANTIMICROBIAL PROTECTOR

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

Identified uses: SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Application of the substance / the mixture Coating compound/ Surface coating/ paint

1.3. Details of the supplier of the safety data sheet

Supplier: Hygenex Ltd
The Fulcrum
Vantage Way
Poole
Dorset
BH12 4NU
UK
Tel: +44 (0)1202 731555
Fax: +44 (0)1202731666
Email: sales@hygenex.co.uk

1.4 Emergency telephone number

Emergency telephone: NHS 111
NHS Direct Wales 08454647
ROI 01 809 2166

SECTION 2: Hazards Identified

2.1. Classification of the substance or mixture

Classification under CLP: The product is not classified, according to the CLP.

2.2. Label elements:

Hazard statements: None.

Hazard pictograms: None.

Signal Word: None.

Precautionary Statements: P260: Do not breath mist/vapours/spray.
P280: Wear eye protection, protective gloves.

Additional information EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH210 Safety data sheet available on request.
Restricted to professional users.

2.3. Other hazards

PTB: This product is not identified as a PBT/vPvB substance.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description: Mixtures of substances listed below with non-hazardous additions.

Dangerous components % (mm):

CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	0.5 - 2.5
CAS: 6846-50-0 EINECS: 229-934-9 Reg.nr.: 01-2119451093-47	1-isopropyl-2,2-dimethyltrimethylenediisobutyrate Aquatic Chronic 3, H412	0.5 – 2.5

Additional Information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General Information: Immediately remove any clothing soiled by the product.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.
Skin contact: Wash immediately with plenty of soap and water and rinse thoroughly. If skin irritation continues, consult a doctor.
Ingestion: Do not induce vomiting; call for medical help immediately. Rinse mouth.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguishing media: Use fire extinguishing methods suitable to surrounding conditions. CO₂ or powder. Fight larger fights with alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: During heating or in case of fire poisonous gases are produced. Carbon monoxide (CO).

5.3. Advice for fire fighters

Advice for fire fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mount respiratory protective device.

6.2. Environmental precautions

Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Store only in the original receptacle.
Store away from oxidising agents.
Suitable packaging: Polyethylene. Stainless Steel.
Protect from Frost

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

34590-94-8 Dipropylene glycol monomethyl ether IOELV Long-term value: 308 mg/m³, 50 ppm.

DNEL values:

34590-94-8 Dipropylene glycol monomethyl ether Dermal Long-term exposure - systemic effects 283 mg/kg bw/day (worker).
Inhalative Long-term exposure - systemic effects 308 mg/m³ (worker) 6846-50-0 1-isopropyl-2,2-dimethyltrimethylenediisobutyrate.
Dermal Long-term exposure - systemic effects 31.2 mg/kg bw/day (worker) Inhalative Long-term exposure - systemic effects 110 mg/m³ (worker).

PNEC values:

34590-94-8 Dipropylene glycol monomethyl ether
PNEC 2.74 mg/kg (bd).
7.02 mg/kg (sediment marine water).
70.2 mg/kg (sediment freshwater).
PNEC 4,168 mg/l (STP).
19 mg/l (aqua, freshwater).
190 mg/l (aqua, intermittent releases).
1.9 mg/l (aqua, marine water).
6846-50-0 1-isopropyl-2,2-dimethyltrimethylenediisobutyrate.
PNEC 83.3 mg/kg (oral).
0.529 mg/kg (sediment marine water).
5.29 mg/kg (sediment freshwater).
1.05 mg/kg (soil).
PNEC 3 mg/l (STP).
0.014 mg/l (aqua, freshwater).
0.001 mg/l (aqua, marine water).

Additional information:

The lists valid during the making were used as basis.

8.2. Exposure controls

Personal Protective Equipment:
General Protective and hygienic measures:

Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Filter A.

Protection of hands:

Protective Gloves - The glove material has to be impermeable and resistant to the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

Suitable materials for safety gloves (EN 374): Butyl rubber, BR.

Penetration time of glove material: Thickness of the gloves \geq 0,7mm ((2-methoxymethylethoxy)propanol).

Value for the permeation: Level \geq 480 min ((2-methoxymethylethoxy)propanol).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles.

Body Protection:

Solvent resistant protective clothing.



SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State: Liquid
Colour: According to product specifications.
Odour: Characteristic
Odour threshold: Not determined
pH-value at 20°C: 8-8.5

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Change in condition:	
Melting point / Freezing point:	Not determined.
Initial boiling point and boiling range:	>100°C
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	Upper – not determined. Lower – not determined.
Vapour pressure at 20 °C:	≤23 hPa
Density at 20 °C:	1.05 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:L	Not determined.
Solubility in / Miscibility with water:	Slightly soluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic	Not determined.
Kinematic at 20°C	12-14 s (DIN 53211/4).
Solvent content:	
Organic solvents:	3.2%
VOC (EC)	3.18%

9.2. Other information

Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical Stability: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Hazardous reactions: Reacts with strong oxidizing agents.

10.4. Conditions to avoid

High temperatures.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data; the classification criteria are not met. .

LD/LC50 values relevant for classification:

34590-94-8 Dipropylene glycol monomethyl ether

Oral LD50 5,135 mg/kg (rat)

Dermal LD50 9,510 mg/kg (rabbit)

Inhalative LC50/4h 55-60 mg/l (rat)

Primary irritant effect:

Hazard	Basis
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

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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

SECTION 12: Ecological Information

12.1. Toxicity

Aqua toxicity:

34590-94-8 Dipropylene glycol monomethyl ether.

ErC50/96h (static) >969 mg/l (pseudokirchneriella subcapitata) (OESO 201) NOEC/22d >0.5 mg/l (daphnia magna).

LOEC/22d >0.5 mg/l (daphnia magna).

EC10/18h 4,168 mg/l (pseudomonas putida).

EC50/48h >100 mg/l (daphnia magna).

EC50/72h (static) 6,999 mg/l (Skeletonema costatum).

LC50/48h (static) 1.919 mg/l (daphnia magna).

LC50/96h (static) >1,000 mg/l (poecilia reticulata) (OESO 203).

12.2 Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential

Bioaccumulative potential: 34590-94-8 Dipropylene glycol monomethyl ether BCF <3 (/) LogPow 1.01 (/).

12.4 Mobility in soil

Mobility:

No further relevant information available.

Additional ecological info:

General Notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5. Results of PBT and vPvB assessment

PBT identification: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue: 6 10 01* aqueous liquid wastes containing hazardous substances.

Uncleaned packaging: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary, together with cleansing agents.

SECTION 14: Transport information

14.1 UN Number:

ADR/ADN, IMDG, IATA Void.

14.2 UN proper shipping name:

ADR/ADN, IMDG, IATA Void.

14.3 Transport hazard class(es)

ADR/ADN, ADN, IMDG, IATA Void.

14.4 Packing group

.ADR/ADN, IMDG, IATA Void.

14.5 Environmental hazards: Not applicable.

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SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Other regulations, limitations and prohibitive regulations.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

15.2. Chemical safety assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other Information

Other information: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant Phases: H412 Harmful to aquatic life with long lasting effects.

Abbreviations & Acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



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