



SUBSTANCE/PREPARATION
SAFETY DATA SHEET

FOR
Hydrus[®]

ENSURING A **SANITISED ENVIRONMENT**

Hydrus

SUBSTANCE/PREPARATION SAFETY DATA SHEET

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation

Hydrus™ 15 (Biocide)

1.2 Use of the substance/preparation

The substance is designed for use in Product Type Groups 1, 2, 3, 4, and 5 of the Biocidal Product Regulation (528/2012)

1.3 Company/Undertaking Information

Hydrus Hygiene Ltd, 8, Ash Court, Walker Road, Hilltop Industrial Estate, Bardon Hill, Coalville, Leicestershire, LE67 1UD
 Tel +44 (0) 1530 234805
 If you have queries regarding this SDS please email enquiries@atana.co.uk

1.4 Emergency telephone

24-hour emergency telephone number 0778 2354001

2.0 HAZARDS IDENTIFICATION

No pictogram is required

Chronic aquatic toxicity category 3;
 H412: Harmful to aquatic life with long lasting effects
 Prevention: P273 Avoid release to the environment
 Disposal: P501 dispose of according to local /national regulations

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 General description

Hydrus™ 75 sanitizing and disinfecting solution.

3.2 Hazardous ingredients (please see Section 15.0 for more details)

International chemical identification	Content in preparation	Hazard information	
Sodium Hypochlorite	≤0.1%	CAS number	7681-52-9
		EINECS	231-668-3
Sodium Hydroxide	<20 mg/l	CAS number	1310-73-2
		EINECS	215-185-5

4.0 FIRST AID MEASURES

Inhalation Under normal conditions of use no acute inhalation hazard is expected.
 No response statements under CLP.

Ingestion Wash out mouth with water. Do not induce vomiting. Have victim drink 240-300ml of water to dilute stomach contents. Obtain medical attention.
 No response statements under CLP.

Skin contact Rinse thoroughly with water. Repeated or prolonged contact with unprotected sensitive skin may produce defatting of the skin leading to irritation and dermatitis.
 No response statements under CLP.

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To the best of our knowledge, the information contained herein is accurate. However, neither the named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Eye contact Rinse thoroughly with water. If irritation persists seek medical attention. No response statements under CLP.

5.0 FIRE-FIGHTING MEASURES

Suitable extinguishing media All extinguishing products are allowed.
Unusual fire / explosion hazards Product is not combustible.
Special protective equipment for fire-fighters Wear full protective self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6.0 ACCIDENTAL RELEASE MEASURES

Personal precautions Splash goggles. Protective overall / suit. Boots. Gloves. Select appropriate clothing for the size of the spillage.
Environmental precautions and clean up methods Prevent discharges into the environment (rivers, water courses, sewers etc.). Clear up spillages. Collect as much as possible in a suitable, clean container, preferably for re-use, otherwise for disposal. Wash the spillage area with large quantities of water. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

7.0 HANDLING AND STORAGE

7.1 Handling Keep away from heat. Keep away from sources of ignition. Empty containers may still contain significant residual amounts of product. Ground all equipment containing material. Do not breathe gas / fumes / vapour / spray. Avoid contact with skin and eyes.
7.2 Storage Keep container closed. Keep container in a cool, dry and well-ventilated area. Use original container. Do not store together with acids and ammonium salts. Chlorine gas will be released if mixed with strong acids, pH <2
7.3 Specific use(s) The substance is designed for use in Product Type Group 1, 2, 3, 4, 5, 11 and 12 of the Biocidal Product Regulation (528/2012)

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Workplace exposure limits Not available.
8.2 EXPOSURE CONTROLS
8.2.1 Engineering measures Provide exhaust ventilation or other engineering controls to keep airborne concentrations of vapours below their respective threshold limit value. Ensure eyewash stations and safety showers are close to workstation location.
8.2.2 Hygiene measures Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.
8.2.3 Personal protective equipment
Respiratory system Wear appropriate respirator when ventilation is inadequate.
Skin and body If there is danger of splashing, wear: PVC or rubber boots. PVC or other impermeable suit.
Hands Rubber gloves. PVC gloves.
Eyes Splash goggles.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information
Appearance Clear, colourless liquid.
Odour Slight chlorine type smell
9.2 Important health, safety and environmental information
pH 8.5 – 9.5
Boiling point 101° C (approximate)
Flash point Not available.
Melting point -2.5° C (approximate)

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Density 1.027 – 1.032 g/cm³
Solubility Complete.

10.0 STABILITY AND REACTIVITY

10.1 Stability The product will react with inorganic and organic compounds
Materials to avoid Acids, Ammonium Compounds, Copper, Nickel and Iron.
 Chlorine gas will be released if mixed with strong acids, pH <2
 EUH031 Contact with acids liberates toxic gas

11.0 TOXICOLOGICAL INFORMATION

Local effects (Oral ingestion) LD50 >2500mg/kg (GHCS – Unclassified)
Local effects (eye irritation) Not considered ocular corrosive or severe irritant
Local effects (Inhalation) Spray mist may cause slight irritation to the upper respiratory tract.
Local effects (Dermal) The product is classified as non-corrosive to the skin. The following classification criteria apply: EU DSD (67/548/EEC): Not classified for corrosivity; EU CLP (1272/2008/EC)/UN GHS: Not classified for corrosivity; UN Packing Group – Non corrosive. Mild irritation may occur with prolonged use on unprotected sensitive skin.
Mutagenicity The product is non-mutagenic (Ames Test)

12.0 ECOLOGICAL INFORMATION

12.1 Ecotoxicity OECD 201, Alga Growth Inhibition Test – EC50. NOEC 0.077mg/l, LOEC 0.25mg/l of active substances.
 OECD 209, Activated Sludge, Respiration Test – EC50, NOEC 10000mg/l of active substances
 OECD 203, Fish, Acute Toxicity Test (Pimephales promelas) – LC50, 96h, NOEC 4.3mg/l, LOEC 7.7mg/l of active substances.
 OECD 202, Acute Immobilisation Test, (Daphnia sp.) – EC50, 48h, NOEC 0.77mg/l, LOEC 2.5mg/l of active substances.
12.2 Mobility Product is completely soluble in water.
Persistence & degradability The methods for determining the biological degradability are not applicable to inorganic substances. Bioaccumulation is not expected.
Additional Ecotox information All numerical values for ecotox effects are calculated on the pure active substances.

13.0 DISPOSAL CONSIDERATIONS

Do NOT dispose of with acids. Dispose of in accordance with all applicable local and national regulations.

14.0 TRANSPORT INFORMATION

14.1 Road transport – Not dangerous according to ADR
14.2 Rail transport – Not dangerous according to RID
14.3 Sea transport – Not dangerous according to IMDG
14.4 Air transport – Not dangerous according to ICAO/IATA

15.0 REGULATORY INFORMATION

Labelling As per article 69 EU BPR see section 2

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16.0 Risk and safety phrases

EUH031 Contact with acids liberates toxic gas
H412 Harmful to aquatic life with long lasting effects

Date of amendment

August 2014
October 2014
August 2015
December 2016

Reason for amendment

Updated with new test data
Updated with new test data
Updated with new test data
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Safeguarding your living & working environment!

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