

# MATERIAL SAFETY DATA SHEET

## Contain-ER Formula 429 Plus (Concentrate)

### 1. Identification of the substances or preparation and company/undertaking

- 1.1 Identification of the preparation: **Contain-ER Formula 429 Plus**  
Description: **Anti-Microbial Liquid**
- 1.2 Company identification:  
Contain-ER Protection Solutions Ltd  
Knoll Business Centre, Old Shoreham Road, Hove, East Sussex, BN3 7GS  
Tel: 0800 87 999 87  
Email: info@contain-er.co.uk  
Web: www.contain-er.co.uk

### 2. Composition/Information on ingredients

- 2.1 Hazardous ingredients: **Non Hazardous**. Concentrate. Dilute 1:9 water.

### 3. Hazards identification

A water based liquid that is classed as non – hazardous to man:  
Information concerning particular hazards for humans: not applicable  
to the environment: .  
Information concerning particular hazards for the environment: not applicable

### 4. First-aid measures

- 4.1 Inhalation: Remove to fresh air: Seek medical advice if feeling unwell.  
4.2 Eye contact: Rinse open eye for several minutes under running water.  
4.3 Skin contact: Non hazardous in normal use.  
4.4 Ingestion: Drink milk or water and seek medical attention.

### 5. Fire-fighting measures

- 5.1 Extinguishing agent: Use fire extinguishing methods suitable to the surroundings.  
5.2 Protective equipment: Put on breathing apparatus.

### 6. Accidental release measures

- 6.1 Personal precautions: Not required  
6.2 Collecting and cleaning: Absorb with liquid binding material.  
6.3 Environmental protection: For high volume spillage (100 litres plus), dilute with plenty of water. Do not allow to enter sewers/surface or ground.

### 7. Handling and storage

- 7.1 Handling: No special requirements  
7.2 Storage: No special requirements

### 8. Exposure controls and personal protection

- 8.1 Eye protection: Avoid contact with eyes

### 9. Physical and chemical properties

- 9.1.1 Appearance: Clear Liquid  
9.1.2 Odor: Characteristic  
9.2 pH: Neutral  
9.3 Density @20%: 0.999gm/cm<sup>3</sup>  
9.4 Auto Ignition temperature: Not self igniting  
9.5 Solubility in water: Fully soluble  
9.6 Flash point: N/A



# MATERIAL SAFETY DATA SHEET

## Contain-ER Formula 429 Plus (Concentrate)

### 10. Stability and reactivity

10.1 Conditions to avoid: As supplied this product has no adverse reactions with other commonly used chemicals.

### 11. Toxicological information

11.1 Contact with eyes: May produce slight irritation. Rinse with plenty of clean water.

11.2 Contact with skin: No irritating effects

11.3 Ingested: No irritating effects

11.4 Inhaled: No irritating effects

### 12. Ecological information

12.1 Do not allow large quantities to reach ground water.

### 13. Disposal considerations

Smaller quantities can be disposed of in household waste.

Larger quantities should be disposed of according to local authorities Regulations.

### 14. Transport information

14.1 Land transport: No special requirements

14.2 Air transport: No special requirements

14.3 Maritime transport: No special requirements

### 15. Regulatory Information

15.1 Symbol: None

15.2 R & S-Sentences: This substance is not subject to identification under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV)

15.3 Observe the general safety regulations when handling chemicals

15.4 Special labeling of certain preparations: N/A

15.5 Contains: Poly (1-hexamethylenebiguanide hydrochloride). May produce an allergic reaction.

15.6 National regulations: N/A

15.7 Technical instructions (air): N/A

15.8 Class share in %: N/A

15.9 Water 17.5

15.10 10.3

15.11 NK 1.0

15.12 Water hazard class: class 1 (Self assessment): slightly hazardous to water

### 16. Other Information

The information in this document is believed to be correct at the time of publication but is provided without any warranty of any kind. The user of our products is solely responsible for observing any laws and guidelines governing his activity.

**DISCLAIMER OF LIABILITY** The manufacturer (Chemspec Europe) and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof. n.ap = not applicable n.av = not available





## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:** Absorbent Granules

**CAS No:** 9003-04-7.

**EINECS-No.:** Polymer.

### 1.2 Relevant identified uses of the substance or mixture:

**Identified uses:** Superabsorbent.

### 1.3 Details of the supplier of the safety data sheet:

**Supplier:** Contain-ER™ Protection Solutions Ltd  
Knoll Business Centre  
Old Shoreham Road  
Hove  
East Sussex  
BN3 7GS

**Telephone number:** 0800 87 999 87

**Fax:** 0800 87 999 87

**Email:** info@contain-er.co.uk

**1.4 Emergency telephone number:** 0800 87 999 87

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**2.1 Substances:** Regulation (EC) No 1272/2008 not applicable. Directive 67/548/EC or Directive 1999/45/EC not applicable.

**2.2 Mixtures:** Not applicable.

## 3. HAZARDS IDENTIFICATION

**3.1 Classification of the substance or mixture:** This substance is not classified as hazardous according to CLP/GHS. Regulation (EC) No 1272/2008 not applicable.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

**Skin contact:** If irritation occurs, wash with plenty of soap and water.

**Eye contact:** Rinse for a prolonged period with plenty of water; if necessary, consult a doctor.

**Ingestion:** If swallowed, drink plenty of water.

**Inhalation:** Remove individual to fresh air. Free airway. Drink water to clear throat.

**4.2 Most important symptoms and effects, both acute and delayed:** None known.

**4.3 Indication of any immediate medical attention and special treatment needed:** In case of swallowing: Drink plenty of water.

## 5. FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media:** Water jet, carbon dioxide, foam, dry extinguishing agents.
- 5.2 Special hazards arising from the substance or mixture:** In case of fire, carbon monoxide, carbon dioxide.
- 5.3 Advice for fire firefighters:** No special requirements.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

See section 8 regarding PPE.

### 6.2 Environmental precautions:

Collect and flush small residuals with much water into the drain for subsequent biological waste effluent treatment.

### 6.3 Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal. Clean thoroughly. Repeat procedure if necessary.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Use respiratory protection when exceeding limit and dust is formed. Ensure sufficient workplace ventilation.

### 7.2 Conditions for safe storage, including any incompatibles:

Requirements for storage areas and containers. Store in a dry place. Average temperature for loose bulk storage over 3 m<sup>3</sup> must not exceed 50°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters:

Components or products of decomposition according to point 10, with limit values related to the place of work which require monitoring. Sodium polyacrylate, cross-linked. 9003-04-7. MAK (DFG). 0.05 mg/m<sup>3</sup>. Alveolar fraction. Cat. 4 C - No risk of embryotoxic effects if TLV and BTV limits are complied with. The European Disposables and Non-Wovens Association (EDANA) recommends a workplace limit of 0.05 mg/cbm for respirable dust of superabsorbent polymer (particle size under 10 microns), based on the NOEL (No Observed Effect Level) of the two-year inhalation study (see section 11).

### 8.2

#### Hygiene measures.

#### Respiratory protection.

#### Hand protection.

#### Eye protection.

### 8.3 Engineering measures:

### 8.4 Personnel protection:

### 8.5 Emergency:

### 8.6 Hygiene measures:

#### Exposure controls:

Obey reasonable safety precautions and practise good housekeeping.

Use respiratory protection when exceeding limit and dust is formed. Ensure sufficient workplace ventilation.

Not required.

Protective goggles.

No data available.

No data available.

No data available.

No data available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Powder.
9.2	Odour:	Odourless.
9.3	Odour threshold:	No data available.
9.4	pH:	Not applicable.
9.5	Melting point/Freezing point:	Not applicable.
9.6	Initial boiling point and boiling range:	Not applicable.
9.7	Flash point:	No data available.
9.8	Evaporation rate:	No data available.
9.9	Flammability (solid, gas):	Not flammable.
9.10	Upper/lower flammability or explosive limits:	Not flammable.
9.11	Vapour pressure:	< 10 hPa (20 °C)
9.12	Vapour density:	No data available.
9.13	Density:	Approx. 0.7 g/cm <sup>3</sup>
9.14	Bulk density:	Approx 570kg/m <sup>3</sup>
9.15	Solubility:	Essentially insoluble.
9.16	pH:	Approx. 6.0 (1.0 g/l) in 0.9% NaCl
9.17	Partition coefficient: n-octanol/water:	No data available.
9.18	Auto ignition temperature:	No data available.
9.19	Decomposition temperature:	No data available.
9.20	Viscosity:	Not applicable.
9.21	Explosive properties:	No data available.
9.22	Oxidising properties:	No data available.

## 10. STABILITY AND REACTIVITY

10.1	Reactivity:	See section 10.2.
10.2	Chemical stability:	Stable under usual application conditions.
10.3	Possibility of hazardous reactions:	Dust explosive properties cannot be excluded.
10.4	Conditions to avoid:	Decomposition above 200 °C.
10.5	Incompatible materials:	No known incompatibility with other materials.
10.6	Hazardous decomposition products:	None known.

## 11. TOXICOLOGICAL INFORMATION

11.1	Acute oral toxicity:	LD50 rat, Limit test. > 5,000 mg/kg.
11.2	Acute inhalation toxicity:	No data available.
11.3	Acute dermal toxicity:	LD50 rat, Limit test. > 2,000 mg/kg.
11.4	Skin corrosion/irritation:	Rabbit, OECD 404, Not irritative.
11.5	Serious eye damage/irritation:	Rabbit, OECD 405, Very slight eye irritation.
11.6	Respiratory/skin sensitisation:	Guinea pig, OECD 406, No sensitization.
11.7	Germ cell mutagenicity:	No data available.
11.8	Carcinogenicity:	No data available.
11.9	Reproductive toxicity:	No data available.
11.12	Aspiration hazard:	No data available.
11.13	Mutagenicity assessment:	Non-mutagenic; Ames test not mutagenic in vivo and in vitro tests.
11.14	Reprotoxicity / teratogenicity	No evidence for hazardous properties Human health hazard assessment.

## 12. ECOLOGICAL INFORMATION

<b>12.1</b>		<b>Ecotoxicity</b>
<b>Aquatic toxicity, fish.</b>		LC50 <i>Leuciscus idus</i> , OECD 203, 96 h > 5,500 mg/l. LC50 <i>Danio rerio</i> , OECD 203, 96 h > 4,000 mg/l.
<b>Aquatic toxicity, invertebrates.</b>		EC50 <i>Tetrahymena pyriformis</i> , Erlanger Ciliatentest (Prof. Gräf) > 6,000 mg/l.
<b>Toxicity in microorganisms.</b>		EC50 <i>Ps. putida</i> , DEV L 8, 24 h > 6,000 mg/l.
<b>Toxicity in organisms which live in soil.</b>		LC50 Acute earthworm toxicity <i>Eisenia foetida</i> , OECD 207, 14 d > 20,000 mg/kg.
<b>12.2</b>	<b>Toxicity:</b>	
<b>12.3</b>	<b>Persistence and degradability:</b>	<b>Biodegradability</b> - OECD 302 B practically no degradation.
<b>12.4</b>	<b>Bioaccumulative potential:</b>	<b>Mobility</b> - No evidence for hazardous properties.
<b>12.5</b>	<b>Mobility in soil:</b>	<b>Mobility</b> - No evidence for hazardous properties.
<b>12.6</b>	<b>Results of PBT and vPvB assessment:</b>	<b>PBT and vPvB assessment</b> - PBT: no; vPvB: no
<b>12.7</b>	<b>Other adverse effects:</b>	<b>General Information</b> - None known.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

<b>Product.</b>	Dispose of whilst observing local legal regulations, e.g. in suitable incineration plant.
<b>Uncleaned packaging.</b>	Undamaged packaging may be responsibly reused after proper cleaning.

## 14. TRANSPORT INFORMATION

<b>14.1</b>	<b>UN number:</b>	Not classified as hazardous for transport.
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## 15. REGULATORY INFORMATION

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

National legislation

WGK - Water Hazard Class (Germany) / Wassergefährdungsklasse (Deutschland)

1 ( VVWS 1999 , 1 slightly hazardous to water - self classification. )

#### Status of Registration

REACH (EU) listed or exempted TSCA (USA) listed or exempted DSL (CDN) listed or exempted AICS (AUS) listed or exempted METI (J) listed or exempted ECL (KOR) listed or exempted PICCS (RP) listed or exempted IECSC (CN) listed or exempted

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (SI 2009).

Workplace Exposure Limits EH40.

The Control of Substances Hazardous to Health Regulations 2005.

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation, (EC) No 1907/2006.

Classification, Labelling and Packaging of Substances and Mixtures Regulation, (EC) No 1272/2008.

## 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, process, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 unless specified in the text.

# MATERIAL SAFETY DATA SHEET

## Contain-ER Formula 429 (Ready to use)



### 1. **Identification of the substances or preparation and company/undertaking**

- 1.1 Identification of the preparation: **Contain-ER Formula 429**  
Description: **Anti-Microbial Liquid**
- 1.2 Company identification:  
Contain-ER Protection Solutions Ltd  
Knoll Business Centre, Old Shoreham Road, Hove, East Sussex, BN3 7GS  
Tel: 0800 87 999 87  
Email: info@contain-er.co.uk  
Web: www.contain-er.co.uk

### 2. **Composition/Information on ingredients**

- 2.1 Hazardous ingredients: **Non hazardous**

### 3. **Hazards identification**

- 3.1 A water based liquid that is classified as non hazardous.  
3.2 To man: N/A  
3.3 To the environment : N/A

### 4. **First-aid measures**

- 4.1 Inhalation: Remove to fresh air. Seek medical advice if feeling unwell.  
4.2 Eye contact: Rinse open eye for several minutes under running water  
4.3 Skin contact: Non Hazardous in normal use  
4.4 Ingestion: Drink milk or water and seek medical attention

### 5. **Fire-fighting measures**

- 5.1 Extinguishing agent: Use extinguishing methods suitable for the surroundings.  
5.2 Protective Equipment: Put on breathing apparatus.

### 6. **Accidental release measures**

- 6.1 Personal Precautions: Not required.  
6.2 Collecting and cleaning: Absorb with liquid binding materials  
6.3 Environmental protection: For high volumes spillage (100 Litres plus), dilute with plenty of water. Do not allow to enter sewers/surface or ground.

### 7. **Handling and storage**

- 7.1 Handling precautions: No special requirements  
7.2 Storage: No special requirements

### 8. **Exposure controls and personal protection**

- 8.1 Respiratory protection: N/A  
8.2 Hand protection: N/A  
8.3 Eye protection: Avoid contact with eyes.  
8.4 Skin protection: N/A  
8.5.1.1.1 Working hygiene: N/A

### 9. **Physical and chemical properties**

- 9.1.1 Appearance: Clear liquid  
9.1.2 Odor: Characteristic  
9.2 pH: Neutral  
9.3 Density @20%: 0.99gm/cm<sup>3</sup>  
9.4 Flashpoint: N/A  
9.5 Auto ignition Temp: Not self igniting  
9.6 Solubility in water: Fully soluble

# MATERIAL SAFETY DATA SHEET

## Contain-ER Formula 429 (Ready to use)



### 10. **Stability and reactivity**

10.1 As supplied the product is stable and has no adverse reactions with other Commonly used chemicals.

### 11. **Toxicological information**

11.1 Contact with eyes: May produce slight irritation, rinse with plenty of clean water.

11.2 Contact with skin: No irritating effects

11.3 Ingested: No irritating effects

11.4 Inhaled: No irritating effects

### 12. **Ecological information**

12.1 Do not allow large quantities to reach ground water.

### 13. **Disposal considerations**

13.1 Smaller quantities can be disposed of in household waste.

13.2 Larger quantities should be disposed of according to local authority regulations.

### 14. **Transport information**

14.1 Land transport: No special requirements

14.2 Air Transport: No special requirements

14.3 Maritime Transport: No special requirements

### **Regulatory information**

15.1 Symbol: None

15.2 R & S-Sentences: This substance is not subject to identification under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV)

15.3 Observe the general safety regulations when handling chemicals

15.4 Special labeling of certain preparations: N/A

15.5 Contains: Poly (1-hexamethylenebiguanide hydrochloride. May produce an allergic reaction.

15.6 National regulations: N/A

15.7 Technical instructions (air): N/A

15.8 Class share in %: N/A

15.9 Water 17.5

15.10 10.3

15.11 NK 1.0

15.12 Water hazard class: class 1 (Self assessment): slightly hazardous to water

### 16. **Other Information**

The information in this document is believed to be correct at the time of publication, but is provided without any warranty of any kind. The user of our products is solely responsible for observing any laws and guidelines governing his activity.

**DISCLAIMER OF LIABILITY** The manufacturer (Chemspec Europe) and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof. n.ap = not applicable n.av = not available