

# HYDRODYNAMICS INTERNATIONAL

## SAFETY DATA SHEET

According to 1907/2006/EC, article 31 (REACH), according to Directive 67/548/EEC (DSD)  
and according to 1272/2008/EC (CLP)

## MOTHERPLANT

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	MOTHERPLANT - Twin Pack Nutrient Solution for Hydroponics
SYNONYMS, TRADE NAMES	MotherPlant A/B
SUPPLIER	Hydrodynamics International 5711 Enterprise Dr. Lansing, MI 48911 USA Phone 517-887-2007 Fax 517-887-2008 <a href="mailto:info@hydrodynamicsintl.com">info@hydrodynamicsintl.com</a>
EMERGENCY TELEPHONE	517-887-2007 (office hours only)

### 2 HAZARDS IDENTIFICATION

MOTHERPLANT is a concentrated solution of mineral nutrients for plants in hydroponic growing systems. It is a Twin Pack.

May cause irritation of eye and skin due to low pH.

CLASSIFICATION  
None.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name/EC-No	CAS-No	Content	Classification
mineral salts			
trace elements (mostly as chelates)			
water		circa 95%	

The Full Text for all R-Phrases and H-statements are Displayed in Section 16

COMPOSITION COMMENTS  
The Data shown are in accordance with the latest EC Directives

### 4 FIRST-AID MEASURES

#### INGESTION

If the person affected is conscious, have them drink large quantities of water. Never give anything by mouth to an unconscious person.

If vomiting seek immediate medical assistance.

#### DISCLAIMER

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REVISION DATE: 4/2/2015

#### SKIN CONTACT

Remove contaminated clothing and wash skin with plenty of running water.

#### EYE CONTACT

Rinse eye immediately with plenty of low pressure water for at least 15 minutes.  
Remove any contact lenses.

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### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

The product is non combustible.  
To extinguish fire use water spray, dry chemical, carbon dioxide, or chemical foam.

#### SPECIAL FIRE FIGHTING PROCEDURES

None.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

None.

#### SPECIFIC HAZARDS

None.

#### PROTECTIVE MEASURES IN FIRE

Wear full protective clothing and MSHA/NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

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### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

See section 8.

#### ENVIRONMENTAL PRECAUTIONS

Take precautionary measures against discharges into the environment, since solutions of plant nutrients can be damaging to the environment in their concentrated form, for instance by polluting streams and water courses.

#### SPILL CLEAN UP METHODS

Sweep up or absorb spilled material.

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### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Avoid contact with eyes or skin.  
Wash thoroughly after handling and before eating, drinking or smoking.

#### STORAGE PRECAUTIONS

None.

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### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PROTECTIVE EQUIPMENT

Protective gloves and safety goggles

#### RESPIRATORY EQUIPMENT

Not applicable

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#### HAND PROTECTION

Protective gloves should be used if there is the risk of direct contact or splash.

#### EYE PROTECTION

Wear approved safety goggles.

#### HYGIENE MEASURES

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

#### SKIN PROTECTION

Wear protective clothing in case of danger of contact.

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	aqueous and odorless liquid
COLOR	A – orange brown B – dark brown
BOILING POINT	about 100 degrees Celsius
SPECIFIC GRAVITY	approximately 1
pH – VALUE	range 2.38-3.86
CONDUCTIVITY	range 228-294 mS/cm

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### 10 STABILITY AND REACTIVITY

#### STABILITY

Stable under normal temperature conditions and recommended use.

#### MATERIALS TO AVOID

None

#### HAZARDOUS DECOMPOSITION PRODUCTS

None

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### 11 TOXICOLOGICAL INFORMATION

#### GENERAL

None

#### INGESTION

May cause irritation of the digestive track.

#### SKIN CONTACT

May cause irritation.

#### EYE CONTACT

May cause irritation.

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## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

Take precautionary measures against discharges into the environment, since solutions of plant nutrients can be damaging to the environment in their concentrated form, for instance by polluting streams and water courses.

### WATER HAZARD CLASSIFICATION

None.

## 13 DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION

Place into a suitable closed container for disposal.

### DISPOSAL METHODS

Dispose of in accordance with local and national regulations.

## 14 TRANSPORT INFORMATION

### GENERAL

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)

## 15 REGULATORY INFORMATION

LABELLING                      none

### CONTAINS

### SAFETY PHRASES (DSD)

S26In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37Wear suitable protective clothing and gloves

S45In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

### PRECAUTIONARY STATEMENTS (CLP)

P305+351+338+313IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical advice / attention

P307+P312If exposed: call a POISON CENTER or doctor/physician if you feel unwell

P281Use personal protective equipment as required

### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 1988. Health and Safety at Work Act 1974.

### ENVIRONMENTAL LISTING

Control of Pollution Act 1974.

### EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 1999/45/EC.

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**STATUTORY INSTRUMENTS**

Notification of New Substances Regulations (NONS) 1993. The Export and Import of Dangerous Chemicals Regulations 2005 number 928.

**APPROVED CODE OF PRACTICE**

Classification and Labelling of Substances and Preparations Dangerous for Supply (EU 2001/59/EC). Safety Data Sheets for Substances and Preparations (REACH)

**GUIDANCE NOTES**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

**NATIONAL REGULATIONS**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

Workplace Exposure Limits 2005 (EH40).

The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004.

Control of Substances hazardous to health regulations 2002 (as amended).

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**16 OTHER INFORMATION**

ISSUED BY                      HS&E Manager

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