# FYSIUM 1-MCP

Version 1.11 Revision Date 2014-08-27 Print Date 2014-09-03

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

### 1.1 Product identifier

| | | |
|---|---|---|
| Trade name | : | FYSIUM 1-MCP |
| Substance name | : | FYSIUM®<br>1-methylcyclopropene |
| Substance No. | : | 3100-04-7 |
| Product code | : | 498207 |
| Reference number | : | JNJ-53557491-AAA<br>R601541 |

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

| | | |
|---|---|---|
| Use of the Substance/Mixture | : | Plant growth regulator |

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

| | | |
|---|---|---|
| Company | : | Janssen Pharmaceutica NV<br>Turnhoutseweg 30<br>2340 Beerse<br>Belgium |
| Telephone | : | +3214602111 |
| Telefax | : | +3214602841 |
| E-mail address<br>Responsible/issuing person | : | SDSJanssen@its.jnj.com |

### 1.4 Emergency telephone number **+32 14 60 24 44**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Not a dangerous substance according to GHS.

**Classification (67/548/EEC, 1999/45/EC)**

This substance is not classified as dangerous according to Directive 67/548/EEC.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

| | | |
|---|---|---|
| Hazard statements | : | Not a dangerous substance according to GHS. |

### 2.3 Other hazards

none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical nature : Substance

| Chemical Name | CAS-No.<br>EINECS-No. / ELINCS No. | Concentration [%] |
|---|---|---|
| WEL substance : | | |
| Cyclopropene, 1-methyl- | 3100-04-7 | <= 100 |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and water.
If symptoms persist, call a physician.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.
Remove contact lenses.
If eye irritation persists, consult a specialist.

If swallowed : Health injuries are not known or expected under normal use.

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

Symptoms : Health injuries are not known or expected under normal use.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Sand, Dry powder, Foam, Carbon dioxide (CO2), Water mist, Aqueous film forming foam (AFFF).

Unsuitable extinguishing media : Water spray jet

### 5.2 Special hazards arising from the substance or mixture

| | | |
|---|---|---|
| Specific hazards during firefighting | : | Combustible material |

**5.3 Advice for firefighters**

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. Firefighters must wear fire resistant personal protective equipment. |
| Further information | : | In the event of fire, cool tanks with water spray. |

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

| | | |
|---|---|---|
| Personal precautions | : | Evacuate personnel to safe areas.<br>Ensure adequate ventilation.<br>Keep away from open flames, hot surfaces and sources of ignition.<br>Refer to protective measures listed in sections 7 and 8. |

**6.2 Environmental precautions**

| | | |
|---|---|---|
| Environmental precautions | : | No special environmental precautions required. |

**6.3 Methods and materials for containment and cleaning up**

| | | |
|---|---|---|
| Methods for cleaning up | : | Allow to evapourate. |

**6.4 Reference to other sections**

For personal protection see section 8., For disposal information, see section 13

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

| | | |
|---|---|---|
| Advice on safe handling | : | To avoid thermal decomposition, do not overheat. For personal protection see section 8. No special handling advice required. |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice. |

**7.2 Conditions for safe storage, including any incompatibilities**

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | not applicable |

**7.3 Specific end use(s)**

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Update | Basis |
|---|---|---|---|---|---|
| Cyclopropene, 1-methyl- | 3100-04-7 | TWA | 0,3 ppm | | J&J OEL/PBOEL HHC |
| Cyclopropene, 1-methyl- | 3100-04-7 | STEL | 1,0 ppm | | J&J OEL/PBOEL HHC |

### 8.2 Exposure controls

**Engineering measures**

Engineering controls should be used as the primary means to control possible exposures. Use process enclosures, local exhaust ventilation or other engineering controls to keep exposure levels below recommended exposure limits.

**Personal protective equipment**

Eye protection : Safety glasses with side-shields

Hand protection

Remarks : Impervious gloves

Skin and body protection : closed work clothing
Long sleeved clothing

Respiratory protection : No personal respiratory protective equipment normally required.
Respirator with filter for organic vapour
Use only respiratory protection that conforms to international/ national standards.
In the case of vapour formation use a respirator with an approved filter.
Engineering controls should always be the primary method of controlling exposures.
If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection

factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environmental exposure controls**

General advice : No special environmental precautions required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Appearance | : | gas |
| Colour | : | colourless |
| Odour | : | pungent<br>slight<br>sweet |
| Odour Threshold | : | No data available |
| pH | : | 7,1 |
| Melting point/range | : | -180 - -140 °C |
| Boiling point/boiling range | : | not applicable |
| Flash point | : | not applicable |
| Evaporation rate | : | not applicable |
| Flammability (solid, gas) | : | combustible |
| Auto-ignition temperature | : | 242 °C |
| Upper explosion limit | : | > 30 %(V) |
| Lower explosion limit | : | 1,25 - 1,60 %(V) |
| Vapour pressure | : | 2 070 hPa |
| Relative vapour density | : | No data available |
| Relative density | : | not applicable |
| Density | : | not applicable |
| Solubility(ies) | | |

| | | |
|---|---|---|
| Water solubility | : | 0,088 g/l |
| Solubility in other solvents | : | 0,011 g/lSolvent: Methanol |
| | | 0,0024 g/lSolvent: Acetone |
| | | 0,0024 g/lSolvent: Heptane |
| | | 0,0022 g/lSolvent: Xylene |
| Partition coefficient: n-octanol/water | : | log Pow: 2,7 |
| Thermal decomposition | : | not applicable |
| Viscosity | | |
| Viscosity, dynamic | : | not applicable |
| Viscosity, kinematic | : | not applicable |
| Explosive properties | : | Explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

### 9.2 Other information

| | | |
|---|---|---|
| Molecular weight | : | 54,09 g/mol |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Highly reactive

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

| | | |
|---|---|---|
| Hazardous reactions | : | No dangerous reaction known under conditions of normal use. |

### 10.4 Conditions to avoid

| | | |
|---|---|---|
| Conditions to avoid | : | None known. |

### 10.5 Incompatible materials

| | | |
|---|---|---|
| Materials to avoid | : | None known. |

### 10.6 Hazardous decomposition products

Hazardous decomposition products : None known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

**Product**

Acute oral toxicity : No data available

Acute inhalation toxicity : LC50 : >= 1 000 ppm
Method: OECD Test Guideline 403

**Skin corrosion/irritation**

**Product**

No data available

**Serious eye damage/eye irritation**

**Product**

No data available

**Respiratory or skin sensitisation**

**Product**

No data available

**Germ cell mutagenicity**

**Product**

Genotoxicity in vitro : Result: negative
Method: Ames test

: Test species: Human lymphocytes
Result: negative
Method: NGLP in vitro CAT

Genotoxicity in vivo : Type: In vivo micronucleus test
Test species: mouseResult: negative

**Carcinogenicity**

**Product**

Remarks: no

**Reproductive toxicity**

**Toxicity to reproduction/fertility**

No data available

**Reprod.Tox./Development/Teratogenicity**

**Product**

543 mg/kg
0,24 mg/kg
negative

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

**Product**

NOAEL: 0,7 mg/kg

Application Route: Inhalation
Exposure time: 3 weeks at 6 hrs/day

NOAEL: 9 mg/kg

Application Route: Inhalation
Exposure time: 90 days at 6 hrs/day

**Aspiration toxicity**

No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,966 mg/l |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 0,722 mg/l |
| Toxicity to algae | : | NOEC (Pseudokirchneriella subcapitata): > 0,371 mg/l |

### 12.2 Persistence and degradability

**Product:**

Biodegradability : not applicable

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : not applicable

Partition coefficient: n-octanol/water : log Pow: 2,7

**12.4 Mobility in soil**

**Product:**

Stability in soil : not applicable

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

**Product:**

Additional ecological information : No data available

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

Product : not applicable

## SECTION 14: Transport information

**14.1 UN number**

**ADN**
Not dangerous goods
**ADR**
Not dangerous goods
**RID**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

**14.2 Proper shipping name**

**ADN**
Not dangerous goods
**ADR**

Not dangerous goods
**RID**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

**14.3 Transport hazard class**

**ADN**
Not dangerous goods
**ADR**
Not dangerous goods
**RID**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

**14.4 Packing group**

**ADN**
Not dangerous goods

**ADR**
Not dangerous goods

**RID**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods

**14.5 Environmental hazards**

**ADN**
Not dangerous goods
**ADR**
Not dangerous goods
**RID**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

**14.6 Special precautions for user**

For personal protection see section 8.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available

## SECTION 15: Regulatory information

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

Major Accident Hazard Legislation
96/82/EC : Update: 2003
Directive 96/82/EC does not apply

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Date and Number Formats

This document uses the following notation for printing dates and numbers:

| | | | |
|---|---|---|---|
| **Date:** | Dec 31th, 2012 | as | 2012-12-31 |
| **Numbers:** | 123456,78 | as | 123 456,78 |

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