

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Product name – FEZAN® PLUS.

MAPP – 15490.

Use – Fungicide.

Formulation Type – Suspension Concentrate.

Supplier – Sipcam UK Limited, 4C Archway House, The Lanterns, Melbourn Street, Royston SG8 7BX, UK.

Emergency phone no – Office 01763 212100.

## 2. HAZARDS IDENTIFICATION

Classification of substance according to Directive 67/548/EEC or Directive 1999/45/EC



R20-40-63



R50/53:

Xn; Harmful

N; Dangerous for the environment

**Additional information** – For the wording of risk and safety phrases refer to section 15.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients (according to Directive 1999/45/EC).

	CAS/EINECS	R Phrases	%
chlorothalonil	1897-45-6 / 217-588-1	T+ R26; Xn R40; Xi R37-41; Xi R43;	15.09%
tebuconazole	107534-96-3 / 403-640-2	Xn R22-63; N R51/53	5.45%

**Additional information**– For the wording of the listed risk phrases refer to section 15.

## 4. FIRST AID MEASURES

**General information** – Instantly remove any clothing soiled by the product.

Remove breathing apparatus only after soiled clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation** – Supply fresh air or oxygen; call for doctor. In case of unconsciousness bring patient into stable side position for transport.

**After skin contact** – Instantly wash with water and soap and rinse thoroughly. Instantly rinse with water.

**After eye contact** – Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing** – In case of persistent symptoms consult doctor.

**Information for doctor** – No specific antidote, treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media** – CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

**Special hazards arising from the substance or mixture** – Formation of toxic gases is possible during heating or in case of fire. Can be released in case of fire: Nitrogen oxides (NOx) / Carbon monoxide (CO) / Hydrogen chloride (HCl).

**Protective equipment** – Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus / Put on breathing apparatus.

**Additional information** – Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** – Put on breathing apparatus.

Wear protective clothing.

**Environmental precautions** – Inform respective authorities in case product reaches water or sewage system.

Do not allow to enter drainage system, surface or ground water.

**Methods and material for containment and cleaning up** – Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

**Reference to other sections** – See Section 8 for information on personal protection equipment.

## 7. HANDLING AND STORAGE

**Precautions for safe handling** – Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

**Information about protection against explosions and fires** – The product is not flammable.

Keep breathing equipment ready.

**Requirements to be met by storerooms and containers** – Store only in the original container.

Store in cool location.

**Information about storage in one common storage facility** – Store away from foodstuffs.

**Further information about storage conditions** – Keep container tightly sealed.

Protect from frost.

Protect from heat and direct sunlight.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Components with limit values that require monitoring at the workplace** – 57-55-6 propane-1,2-diol (4,0%) WEL  
Long-term value: 474\* 10<sup>-6</sup> mg/m<sup>3</sup>, 150\* ppm.

**Personal protective equipment** – The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Avoid contact with the eyes.

**Breathing equipment** – In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Recommended filter device for short term use: Combination filter A-P1.

**Protection of hands** – Protective gloves.

**Eye protection** – Safety glasses.

**Body protection** – Protective work clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** –

**Form** – Fluid.

**Colour** – According to product specification.

**Odour** – Characteristic.

pH value at 20°C – 7-9.

Melting point or range – Not determined.

Boiling point/range – > 100°C.

Flash point – Not applicable.

Self-inflammability – Product is not self-igniting.

Danger of explosion – Product is not explosive.

Solvent content – Organic solvents: 4.0 %

Water: 70.0 %.

Solubility / Miscibility (water) – Not miscible.

Density – 1.1 g/cm<sup>3</sup>.

## 10. REACTIVITY AND STABILITY

Thermal decomposition / conditions to be avoided –

No decomposition if used according to specifications.

Possibility of hazardous reactions – Hazardous polymerisation has not reported under normal temperatures and pressures.

Conditions to avoid – No further relevant information available.

Incompatible materials – No further relevant information available.

Hazardous decomposition products – Thermal decomposition products may include toxic and corrosive fumes of chlorides and toxic oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION

LD/LC50 values that are relevant for classification –

Oral LD50 > 2000 mg/kg (rat)

Dermal LD50 > 2020 mg/kg (rat)

Inhalation LC50/4 h 1.08 mg/l (rat)

Skin Irritation – No irritant effect.

Eye Irritation – No irritant effect.

Sensitisation – No sensitizing effect known.

## 12. ECOLOGICAL INFORMATION

Aquatic toxicity (active ingredient) –

EC 50 – 0.861 (72 h) mg/l (algae).

LC 50 – 0.909 (48 h) mg/l (*daphnia magna*).

LC 50 – 0.21 (96h) mg/l (rainbow trout (*oncorhynchus mykiss*)).

Note – Toxic for fish.

Persistence and degradability – No further relevant information available.

Bio accumulative potential – 1897-45-6 chlorothalonil (ISO) – Kow logP 2.94 (partition n-octanol/water).

Mobility in soil – No further relevant information available.

## 13. DISPOSAL

Waste or used preparation – Use specialist waste contractor in accordance with local regulations.

Disposal of packaging – Use specialist waste contractor in accordance with local regulations.

## 14. TRANSPORT

UN-Number (ADR, IMDG, IATA) – 3082

Proper shipping name (ADR, IMDG, IATA) – 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorothalonil (ISO))

Hazard class (ADR,IMDG, IATA) – Class 9 Miscellaneous dangerous substances and articles. Label 9+P

Packing group (ADR, IMDG, IATA) – III

Marine pollutant – Yes

Special marking (ADR) – Symbol (fish and tree)

Special precautions (user) – Warning: Miscellaneous dangerous substances and articles.

Kemler Number – 90

EMS Number – F-A,S-F

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code – Not applicable.

Transport/Additional information – (ADR)

Limited quantities (LQ) LQ7

Transport category 3

Tunnel restriction code E

## 15. REGULATORY INFORMATION

Water Hazard Class – Water danger class 3 (self assessment); extremely hazardous for water

Hazard-determining components of labelling – Chlorothalonil

Symbol(s)

Xn Harmful

N Dangerous for the environment

Risk (R) phrases

20 Harmful by inhalation.

40 Limited evidence of a carcinogenic effect.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

63 Possible risk of harm to the unborn child.

Safety (S) phrases

4 Keep away from living quarters.

9 Keep container in a well-ventilated place.

20 When using do not eat or drink.

23 Do not breathe spray.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

38 In case of insufficient ventilation, wear suitable respiratory equipment.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label).

57 Use appropriate container to avoid environmental contamination.

## 16 OTHER INFORMATION

R Phrases referenced in section 3

R22 Harmful if swallowed.

R26 Very toxic by inhalation.

R37 Irritating to respiratory system.

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R63 Possible risk of harm to the unborn child.

Prepared by Sipcam UK Ltd to the best of our current knowledge and information. No responsibility is accepted that the information will be sufficient or correct in all cases. November 2011.