

SAFETY DATA SHEET

Issue date: 29/06/2015

1. Identification of the substance or mixture and of the supplier

Product: Potassium phosphonates (phosphites) + chlorothalonil SC Product name: Bugy 62.5 SC, Cosmos, Cosmos SC 62.5, Feniks 62.5 SC,

LBG-31FCL

Recommended use: Fungicide

Supplier: Luxembourg Industries Ltd.

27 Hamered St., Tel Aviv, 6812509

ISRAEL

Emergency phone number: +972 3 796 4300

2. Hazards identification

Classification of the product according to the Global Harmonized System of Classification and Labelling of Chemicals (GHS).

Hazard classification: Carcinogenicity Category 2

> Eye damage/irritation Category 2B Sensitization-Skin Category 1 Hazardous to the aquatic environment Acute hazard Category 1

Long term hazard Category 1

Label elements:

Pictograms:



Signal word: Warning

Hazard statement(s): H351 Suspected of causing cancer.

> May cause an allergic skin reaction. H317

Causes eye irritation. H320

Very toxic to aquatic life with long lasting effects. H410

Precautionary statement(s):

Prevention: P201 Obtain special instructions before use.

> P202 Do not handle until all safety precautions have been read and

> > understood.

P261 Avoid breathing mist/spray.

P264 Wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the P272

workplace.

Wear protective gloves. P280

Avoid release to the environment. P273

> PP + CLT SDS Page 1 of 6

LUXEMBOURG INDUSTRIES

Response: P308+P313 If exposed or concerned: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do.

 $C_8Cl_4N_2$

1897-45-6

Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container in accordance with national/

international regulations.

Other hazards: Not known

3. Information on ingredients contributing to hazard

Chemical name of the a.i.: Potassium salts of phosphonic Tetrachloroisophthalonitrile

(phosphorous) acid

Common name of the a.i.: Potassium phosphite Chlorothalonil

Chemical formula: $K_2HPO_3 + KH_2PO_3$

Structural formula:

CAS No.: 13598-36-2

13977-65-6 + 13492-26-7

Content: 375 g/L (phosphorous acid 250 g/L

equivalent)

4. First-aid measures

Ingestion: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if

you feel unwell.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.



Most important symptoms and effects, both acute and delayed.

Chlorothalonil was reported to cause irritation of skin and mucous membranes of the eye and respiratory tract on contact. Cases of allergic contact dermatitis have been reported. Occupational exposure to chlorothalonil was reported to induce asthma symptoms, which resolved cessation of exposure. No cases of systemic poisoning in humans have been reported in the published medical literature.

Indication of any immediate medical attention and special treatment needed.

There is not specific antidote. Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media: Dry chemical, CO₂, alcohol-resistant foam or water spray.

Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the

material.

Specific hazards arising from the

chemical:

The product is not combustible. The substance itself does not burn but may decompose upon heating to produce irritating and possibly toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

Special protective equipment and precautions for fire-fighters:

Wear chemical protective clothing and self-contained breathing apparatus (SCBA) with positive pressure.

6. Accidental release measures

Personal precautions, protective

equipment:

Use personal protective equipment. Avoid breathing

mist/vapours. Ensure adequate ventilation.

Environmental precautions: Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Methods and materials for

containment and cleaning up:

Stop leak. Contain product with an inert diking material. Vacuum up as much as possible. Place reclaimed product in a closed and properly labeled waste drum. Store drum in

separate area until proper disposal. Wash thoroughly after

handling.

7. Handling and storage

Precautions for safe handling: Wear suitable protective clothing. Avoid contact with skin

and eyes. Do not breathe mist/vapours. Ensure adequate ventilation. Wash hands and exposed skin thoroughly after

handling.



Conditions for safe storage, including any incompatibilities:

Store locked up. Store in a cool place. Keep container tightly

ties: closed in a dry and well ventilated place.

8. Exposure controls / personal protection

Occupational exposure limits: Chlorothalonil:

TLV (ACGIH): Not established TWA (8 hr): 0.1 mg/m³

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls to

keep the airborne concentrations low. Ensure that eyewash stations and safety showers are in proximity to the work-

station location.

Personal protective equipment: Long sleeve shirt, long pants, boots, chemical resistant

gloves, dust or mist respirator, and protective eyewear.

9. Physical and chemical properties

Appearance: Off with to light brown, liquid

Odour: Characteristic odor

pH: 6.0-7.0

Melting point/freezing point:Not availableBoiling point:Not availableEvaporation rate:Not availableFlash point:> 100°C

Flammability:

Vapour pressure (25°C):

Not available

Vapour density:

Not available

Not available

1.5-1.6 g/mL

Solubility in water (20°C):

Suspension

Partitition coefficient

n-octanol/water (25°C): Chlorothalonil

Kow logP = 2.92 Potassium phosphite Not applicable

Ignition temperature:Not applicableDecomposition temperature:Not availableViscosity (20°C):370 Cp, 3.70 poise

10. Stability and reactivity

Reactivity: Not corrosive to aluminum, copper and polyethylene. Slightly

corrosive to zinc.

Chemical stability: Stable under normal temperatures and pressure.

Possibility of hazardous reactions: Not available. **Conditions to avoid:** Not available.



Incompatible materials: The product is incompatible with strong acids, strong bases

and oxidizing materials.

Hazardous decomposition products: Not available.

11. Toxicological information

Acute toxicity

Oral LD_{50} (rat, female): >5000 mg/kg Dermal LD_{50} (rabbit): >5000 mg/kg Inhalation (rat): >5.09 mg/L

Skin corrosion/irritation

Skin irritation (rabbit): Slightly irritant

Serious eye damage/irritation

Eye irritation (rabbit): Mildly irritant

Respiratory or skin sensitization Skin sensitizer

Germ cell mutagenicity: Not available

Carcinogenicity: Chlorothalonil: Limited evidence for carcinogenicity from

animal's studies. Classified by IARC in group 2B,

possibly carcinogenic to humans. PP: No carcinogenic potential

Reproductive toxicity:

STOT* single exposure:

Not available

STOT repeated exposure:

Aspiration hazard:

Not available

12. Ecological information

Ecotoxicity:

Birds LD₅₀:

Quail, Coturnix Japonica: >2000 mg/Kg

Fish LC₅₀ (96 h):

Poecilia reticulata: 0.307 mg/L

Bees LD_{50} (48 h, oral):

Apis mellifera >100 µg/bee

Persistence and degradability: Chlorothalonil: Readily biodegradable

PP: Not readily biodegradable

Bioaccumulative potential: Chlorothalonil: No bio-accumulative potential

PP: Not available

Mobility in soil: Chlorothalonil: Low mobility to immobile.

PP: Low mobility

Other adverse effects: Not available



^{*}Specific Target Organ Toxicity

13. Disposal considerations

Dispose of in accordance with local regulations.

14. Transport information

UN No.: 3082

Proper shipping name: Environmentally hazardous substance, Liquid, N.O.S. (chlorothalonil)

Transport hazard class: 9 **Packaging group:** III

Marine pollutant: Yes

15. Regulatory information

This data sheet complies with the requirements of the Global Harmonized System of Classification and Labelling of chemicals (GHS).

16. Other information

The information contained herein is applicable solely to the indicated product, and does not relate to any other use of this product as described. Its use is intended by persons having technical skill and at their own discretion and risk. The information has been developed from sources reliable. This information is furnished without warranty, expressed or implied, including the warranties of merchantability and fitness for a particular purpose is made with respect to the information contained herein.

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