

## SAFETY DATA SHEET

## **Chlorothalonil 825 WDG**

 Revision Date
 15-Jul-2018
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 1
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 FNG56894-E

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# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

## Chlorothalonil 825 WDG

Pure substance/mixture Mixture

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

Recommended Use Fungicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA Makhteshim Ltd

PO Box 60

Beer Sheva 8410001 Israel

For further information, please contact

Email address SDS@ADAMA.COM

Emergency Telephone

**Emergency Telephone** +972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)

## **Section 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists) Category 3 - (H331)
Serious eye damage/eye irritation
Carcinogenicity
Category 2 - (H331)
Category 2 - (H351)
Specific target organ toxicity (single exposure)

Category 3 - (H335)

Acute aquatic toxicity

Chronic aquatic toxicity

Category 1 - (H400)

Category 1 - (H410)

Label Elements

Hazard pictograms

ADAMA Page 1/8



Signal word Danger

Hazard Statements H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H335 - May cause respiratory irritation H351 - Suspected of causing cancer

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

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

Remove contact lenses, if present and easy to do. Continue rinsing

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards
No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Chlorothalonil	78 - 87	1897-45-6	217-588-1	Acute Tox. 2 (H330) Eye Dam. 1 (H318) Skin Sens. 1 (H317)	M=10 M=10
				STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Carc. 2 (H351)	
Alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt	2 - 3	68425-94-5		Eye Irrit. 2 (H319)	
Reaction product of naphthalene, propan-2-ol,sulfonated and neutralized by caustic soda	1 - 2	N/A	939-368-0	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) STOT SE 3 (H335)	

## **Section 4: FIRST AID MEASURES**

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

ADAMA Page 2/8

#### Chlorothalonil 825 WDG - FNG56894-E Revision Date 15-Jul-2018

a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Ingestion** Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

**Self-protection of the first aider**Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known

Indication of any immediate medical attention and special treatment needed

## Section 5: FIRE-FIGHTING MEASURES

#### Extinguishing media

## Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

## Special hazards arising from the substance or mixture

No specific hazard known.

## Advice for firefighters

Wear self-contained breathing apparatus and protective suit Wear self contained breathing apparatus for fire fighting if necessary

## Section 6: ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

## For emergency responders

Use personal protection recommended in Section 8.

## Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

## Methods and material for containment and cleaning up

## Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

#### Reference to other sections

## **Other Information**

See also section 8,13

## **Section 7: HANDLING AND STORAGE**

#### Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

#### Conditions for safe storage, including any incompatibilities

## **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

#### Specific end use(s)

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Chlorothalonil					Skin
1897-45-6					

#### Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand Protection** Gloves made of plastic or rubber.

**Body Protection** Suitable protective clothing, Gloves made of plastic or rubber, Suitable protective clothing,

Apron, Rubber boots, Wear impervious protective clothing, including boots, gloves, lab coat,

apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection** Use only with adequate ventilation.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained. Do not

allow into any sewer, on the ground or into any body of water. Prevent product from

entering drains.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### Physical and Chemical Properties

Values Property Method Remarks

Appearance Physical state Solid Color brown Odor Odorless

Odor threshold No data available

6 - 9.5На

Melting point/freezing point °C No data available Boiling point/boiling range °C No data available Flash point °C No data available

**Evaporation rate** Not Applicable Flammability (solid, gas) No data available : No data available

Upper/lower flammability or

explosive limits Vapor pressure kPa No data available Vapor density No data available Relative density No data available Solubility(ies) mg/l No data available

**Partition Coefficient** See Section 12 for more information

(n-octanol/water) Log Pow

Autoignition temperature °C No data available Decomposition temperature °C No data available Kinematic viscosity mm2/s 40 °C Not Applicable **Explosive properties** Not an explosive **Oxidizing properties** No data available

Other Information

Bulk density g/ml

Surface tension mN/m : Not Applicable

## Section 10: STABILITY AND REACTIVITY

#### Reactivity

Not available.

## Chemical stability

Stable under normal conditions.

## Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks.

#### Incompatible Materials

No information available

## **Hazardous Decomposition Products**

None under normal use conditions.

Not Applicable

## **Section 11: TOXICOLOGY INFORMATION**

#### Information on toxicological effects

**Acute toxicity** 

Method **Values Species** Oral LD50 mg/kg **OECD 423** >2000 Rat Dermal LD50 mg/kg Inhalation LC50 mg/l/4h >2000 Rat **OECD 402** 0.53 Rat OECD 403 Skin corrosion/irritation Non-irritating to the skin Rabbit **OECD 404** Serious eye damage/eye irritation Irritating to eyes Rabbit OECD 405 Respiratory/skin sensitization : Not a skin sensitizer Guinea pig OECD 406

**Chronic toxicity** 

Germ cell mutagenicity

**Chemical Name** 

Chlorothalonil : Not classified

Carcinogenicity

**Chemical Name** 

Chlorothalonil : Suspected of causing cancer

Reproductive toxicity .

**Chemical Name** 

Chlorothalonil : Not toxic for the reproductive system

STOT - single exposure

**Chemical Name** 

Chlorothalonil : No data available

STOT - repeated exposure

Chemical Name

Chlorothalonil : No data available

Aspiration hazard Chemical Name

Chlorothalonil : No data available

## **Section 12: ECOLOGICAL INFORMATION**

#### **Toxicity**

## **Aquatic toxicity**

Acute toxicityValuesSpeciesMethodRemarksFish 96-hour LC50 mg/l: 0.052Poecilia reticulataOECD 203

Crustacea 48-hour EC50 mg/l : 0.28 Daphnia magna OECD 202 Algae 72-hour EC50 mg/l : 0.52 Chlorella vulgaris OECD 201

Other plants EC50 mg/l : No data available

Terrestrial Toxicity Birds Oral LD50 mg/kg

Bees Oral LD50 µg/bee

Water DT50 days

Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>

ADAMA Page 6/8

Remarks

#### Chlorothalonil 825 WDG - FNG56894-E Revision Date 15-Jul-2018

Soil DT50 days

Biodegradation

Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

**Bioconcentration factor (BCF)** 

Mobility in soil

Adsorption/Desorption <u>Values</u> <u>Method</u> <u>Remarks</u>

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

## Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

UN/ID No \* 2588

Proper shipping name PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil)

Hazard Class 6.1
Packing Group III
Marine pollutant Yes

Special precautions for user

RID/ADR

**UN/ID No \*** 2588

Proper shipping name PESTICIDE, SOLID, TOXIC, N.O.S. ( Chlorothalonil )

Hazard Class 6.1
Packing Group III
Environmental hazard Yes

Special precautions for user

ICAO/IATA

**UN/ID No \*** 2588

Proper shipping name PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil)

Hazard Class 6.1
Packing Group

ADAMA Page 7/8

Environmental hazard Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Yes

Not Applicable



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

## **Section 15: REGULATORY INFORMATION**

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

## **Section 16: OTHER INFORMATION**

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

**List of Acronyms** 

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EC Number - EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

#### **Disclaimer**

The information provided in this Material 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 a guidance for safe handling, use, processing, 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.

**End of Safety Data Sheet**