

## SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

MCW-5382

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 4
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# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

MCW-5382

Synonyms Bupirimate 25 EC

Pure substance/mixture Mixture

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

Recommended Use Fungicide

Uses advised against No information available

1.3. 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

1.4. Emergency telephone number

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

## **Section 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard Category 1 - (H304)
Serious eye damage/eye irritation
Carcinogenicity Category 2 - (H319)
Category 2 - (H351)
Specific target organ toxicity (single Category 3 - (H335)

exposure)

Hazardous to the Aquatic Category 1 - (H410)

**Environment - Chronic Hazard** 

Flammable liquids Category 3 - (H226)

2.2. Label elements

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Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word Danger

Hazard Statements H304 - May be fatal if swallowed and enters airways

H319 - Causes serious eye irritation H335 - May cause respiratory irritation H351 - Suspected of causing cancer

H410 - Very toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P210 -Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

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

P331 - Do NOT induce vomiting

P501 - Dispose of contents/ container to an approved waste disposal plant

**EU Specific Hazard Statements** EUH066 - Repeated exposure may cause skin dryness or cracking

EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

EUH208 - Contains Bupirimate. May produce an allergic reaction

Additional phrases for PPP SP1 - Do not contaminate water with the product or its container (Do not clean application

equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixture

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Bupirimate	25-30	41483-43-6	255-391-2	612-288-00-0	Carc. 2 (H351) Skin Sens. 1B (H317) Aquatic Chronic 1 (H410)	M=1	-
n-Butan-1-ol	31-34	71-36-3	200-751-6	603-004-00-6	STOT SE 3 (H335) STOT SE 3 (H336) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H302) Flam Liq. 3 (H226)		01-2119484630 -38-0001
Hydrocarbons, C10, aromatics, <1% naphthalene	14-17	N/A	918-811-1	-	STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)		01-2119463583 -34-0005

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					(EUH066)	
Hydrocarbons C11-C14, n-alkanes, isoalkanes, cyclics <2% aromatic	8.5-13	N/A	926-141-6	-	Asp. Tox. 1 (H304) (EUH066)	01-2119456620 -43
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	2 - 3	90194-26-6	932-231-6	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	01-2119560592 -37

Full text of H- and EUH-phrases: see section 16

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

## 4.1. Description of 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

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** Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician.

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

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

Symptoms None known

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

**Note to physicians** Treat symptomatically.

## **Section 5: FIRE-FIGHTING MEASURES**

## 5.1. Extinguishing media

## **Suitable Extinguishing Media**

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

## **Unsuitable Extinguishing Media**

No information available.

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

No specific hazard known.

#### 5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

## Section 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

## **Personal precautions**

Remove all sources of ignition. Evacuate personnel to safe areas. Use only with adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

## For emergency responders

Use personal protection recommended in Section 8.

#### 6.2. 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.

#### 6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

#### 6.4. Reference to other sections

#### Other Information

See also section 8,13

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

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Use only with adequate ventilation. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

## **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

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

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

## 7.3. 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

## 8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
n-Butan-1-ol		STEL: 50 ppm	STEL: 50 ppm	S*	TWA: 100 ppm
71-36-3		STEL: 154 mg/m <sup>3</sup>	STEL: 150 mg/m <sup>3</sup>	STEL: 50 ppm	TWA: 310 mg/m <sup>3</sup>
		Skin		STEL: 154 mg/m <sup>3</sup>	Ceiling / Peak: 100
				_	ppm
					Ceiling / Peak: 310
					mg/m³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark

n-Butan-1-ol 71-36-3		TWA: 20 ppm		TWA: 50 ppm TWA: 150 mg/m³ STEL: 75 ppm STEL: 230 mg/m³ Skin	Ceiling: 50 ppm Ceiling: 150 mg/m³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
n-Butan-1-ol	STEL 200 ppm	STEL: 50 ppm	NDSCh: 150 mg/m <sup>3</sup>	Skin	STEL: 25 ppm
71-36-3	STEL 600 mg/m <sup>3</sup>	STEL: 150 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>	Ceiling: 25 ppm	STEL: 75 mg/m <sup>3</sup>
	TWA: 50 ppm	TWA: 50 ppm	Skin	Ceiling: 75 mg/m <sup>3</sup>	Skin
	TWA: 150 mg/m <sup>3</sup>	TWA: 150 mg/m <sup>3</sup>			

#### 8.2. Exposure controls

**Property** 

Annogranco

9.2. Other information

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** Wear fire/flame resistant/retardant clothing, Gloves made of plastic or rubber, Antistatic

footwear, Suitable protective clothing, Apron.

**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.

Values

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

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

Method

## 9.1. Information on basic physical and chemical properties

Appearance			
Physical state	: Liquid		
Color	: light yellow		
Odor	: Solvent		
Odor threshold	: No data available		
pH	: 8.7 - 9.2	CIPAC MT 75.2	
Melting point/freezing point °C	: No data available		
Boiling point/boiling range °C	: No data available		
Flash point °C	: 40	CIPAC MT 12.2	
Evaporation rate	: Not Applicable		
Flammability (solid, gas)	: Not Applicable		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	: No data available		
Vapor density	: No data available		
Relative density	: 0.88 - 0.98	EEC A.3	
Solubility(ies) mg/l	: No data available		
Partition Coefficient	:		See Section 12 for more
(n-octanol/water) Log Pow			information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm2/s 40 °C	:		Not available
Explosive properties	: Not an explosive		
Oxidizing properties	: No data available		
-			

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Remarks

Bulk density g/ml :

Surface tension mN/m : Not Applicable

## **Section 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

No data available.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

None under normal processing.

## 10.4. Conditions to avoid

Heat, flames and sparks.

## 10.5. Incompatible materials

No information available

## 10.6. Hazardous decomposition products

None under normal use conditions.

## **Section 11: TOXICOLOGY INFORMATION**

## 11.1. Information on toxicological effects

**Acute toxicity** 

•		<u>Values</u>	Species	<u>Method</u>
Oral LD50 mg/kg	:	> 2000	Rat	JF 4260
Dermal LD50 mg/kg	:	> 2000	Rat	JF 4260
Inhalation LC50 mg/l/4h	:	> 5.3	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** 

Bupirimate : Not classified

Carcinogenicity

Chemical Name

Bupirimate : Suspected of causing cancer

Reproductive toxicity .

**Chemical Name** 

Bupirimate : Not toxic for the reproductive system

STOT - single exposure

**Chemical Name** 

Bupirimate : No data available

STOT - repeated exposure

Remarks

Chemical Name

Bupirimate : No data available

Aspiration hazard Chemical Name

Bupirimate : No data available

## **Section 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

**Aquatic toxicity** 

Acute toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish 96-hour LC50 mg/l : 6.2 Oncorhynchus

mykiss

Crustacea 48-hour EC50 mg/l: 11.9Daphnia magnaOECD 202Algae 72-hour EC50 mg/l: 1.55P. subcapitataOECD 201

Other plants EC50 mg/l : Not available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

**Chemical Name** 

Bupirimate : >5000 Japanese quail

Bees Oral LD50 µg/bee

**Chemical Name** 

Bupirimate : > 200 Oral

12.2. Persistence and degradability

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

Water DT50 days

Chemical Name

Bupirimate : 165 SETAC

Soil DT50 days Chemical Name

Bupirimate : 22-69

Biodegradation Chemical Name

Bupirimate : Not readily biodegradable OECD 301 D

12.3. Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Log Pow

Chemical Name

Bupirimate : 3.68 EEC A.8 pH 7

**Bioconcentration factor (BCF)** 

Chemical Name

Bupirimate : Not available

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical Name

Bupirimate : 882 - 2822 Koc

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## 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Other adverse effects

No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. 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.

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

was used.

## Section 14: TRANSPORTATION INFORMATION

#### IMDG/IMO

14.1 UN/ID No \* 1993

FLAMMABLE LIQUID, N.O.S. ( 31-34% n-BUTANOL ) 14.2 Proper shipping name

14.3 Hazard Class 14.4 Packing Group Ш 14.5 Marine pollutant Yes

14.6 Special precautions for user

#### RID/ADR

14.1 UN/ID No \* 1993

FLAMMABLE LIQUID, N.O.S. ( 31-34% n-BUTANOL ) 14.2 Proper shipping name

14.3 Hazard Class 14.4 Packing Group Ш 14.5 Environmental hazard Yes 14.6 Special precautions for user

14.7 Tunnel restriction code D/E

## ICAO/IATA

14.1 UN/ID No \*

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S. ( 31-34% n-BUTANOL )

14.3 Hazard Class 14.4 Packing Group Ш 14.5 Environmental hazard Yes

14.6 Special precautions for user

14.7 Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

**IBC Code** 



<sup>\*</sup> 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**

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

## 15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

## Section 16: OTHER INFORMATION

#### Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eve irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

EUH066 - Repeated exposure may cause skin dryness or cracking

#### **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 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

## This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Revision Note**

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

## 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**