

# **SAFETY DATA SHEET**

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

ADM.02852.H.1.A

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

#### 1.1. Product identifier

# ADM.02852.H.1.A

Other means of identification

**Synonyms** 2,4-D/Florasulam 300/6.25 SE

Pure substance/mixture Mixture

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

Recommended use Herbicide; Professional use Uses advised against No information available

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

Supplier

ADAMA Agan Ltd P.O.B. 262 ASHDOD Israel

For further information, please contact

E-mail address SDS@ADAMA.COM

1.4. Emergency telephone number

Emergency Telephone ADAMA Makhteshim: + 972 8 6560800/801; + 972 8 6296713/714

ADAMA Agan: + 972 8 8515341

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Skin sensitization	Category 1 - (H317)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

#### 2.2. Label elements

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

Contains 2,4-D-2-ethylhexyl, 1,2-Benzisothiazolin-3-one

**Hazard pictograms** 



Signal word Warning

Hazard statements H317 - May cause an allergic skin reaction

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

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

**EU Specific Hazard Statements** EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

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

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

**Endocrine Disruptor Information** None known.

Persistent Organic Pollutants Not applicable.

# SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	REACH Registration Number
2,4-D-2-ethylhexyl	1928-43-4	217-673-3	607-308-00-X	42-47	Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		M=1 M=1	No data available
Florasulam	145701-23-1	-	613-230-00-7	0.5-1	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		M=100 M=100	No data available

1,2-Benzisothiazolin-3-	2634-33-5	220-120-9	613-088-00-6	< 0.05	Skin Irrit. 2	Skin Sens. 1 ::	01-212076154
one					(H315)	C>=0.05%	0-60-XXXX
					Eye Dam. 1		
					(H318)		
					Skin Sens. 1		
					(H317)		
					Acute Tox. 4		
					(H302)		
					Aquatic Acute		
					1 (H400)		

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available.

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 if you feel unwell, seek medical advice immediately (show the label

where 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.

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.

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

and shoes. Consult a physician if necessary.

**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.

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: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the Product is or conta

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### SECTION 6: Accidental release measures

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

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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**Exposure Limits** 

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

No information available. No information available.

(PNEC)

**Property** 

8.2. Exposure controls

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

Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Values

**Hand protection** Wear suitable gloves.

**Skin and body protection**Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Appearance			
Physical state	: Liquid		
Color	: white		
Odor	: characteristic		
Odor threshold	: No data available		
pH	: 3.5 - 5.5	CIPAC MT 75.3	solution (1%)
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: > 100		aqueous solution
Evaporation rate	: No data available		
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	: 1.05 - 1.09	CIPAC MT 3.3	20 °C
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See Section 12 for additional
			Ecological Information
Autoignition temperature °C	: 410	EEC A.15	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm2/s 40 °C			No data available
Surface tension	: 34.1	EEC A.5	
Particle Size	: Not applicable		

Method

9.2. Other information

Bulk density g/ml : Not applicable

### 9.2.1. Information with regard to physical hazard classes

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Remarks

Explosive properties : Not an explosive Oxidizing properties : Not oxidizing

#### 9.2.2. Other safety characteristics

No information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid**None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	Remarks
Oral LD50 mg/kg	: > 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 mg/l	: > 5.7	Rat	OECD 436	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	
Sensitization	: Skin sensitizer	Guinea pig	OECD 406	

**Chronic toxicity** 

Germ cell mutagenicity

Chemical name

2,4-D-2-ethylhexyl : Not classified Florasulam : Not classified

Carcinogenicity . Chemical name

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2,4-D-2-ethylhexyl : Not Carcinogenic

Florasulam : Not Carcinogenic

Reproductive toxicity .

Chemical name

2,4-D-2-ethylhexyl : Not toxic for the reproductive system : Not toxic for the reproductive system

**STOT - Single Exposure** 

Chemical name

2,4-D-2-ethylhexyl : Not classified Florasulam : Not classified

**STOT - Repeated Exposure** 

**Chemical name** 

2,4-D-2-ethylhexyl : Not classified Florasulam : Not classified

Aspiration hazard Chemical name

2,4-D-2-ethylhexyl : Not classified Florasulam : Not classified

### 11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

 Acute toxicity
 Values
 Species
 Method
 Remarks

 Fish 96-hour LC50 mg/l
 : > 100
 Oncorhynchus mykiss
 OECD 203

Crustacea 48-hour EC50 mg/l : > 100 Oncornyrichus mykiss OECD 203

Algae 72-hour EC50 mg/l : 0.485 P. subcapitata OECD 201

Other plants EC50 mg/l : 0.110 Lemna gibba OECD 221 days 7

Chronic aquatic toxicity Values Species Method Remarks

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical name

2,4-D-2-ethylhexyl : > 633 Japanese quail

Florasulam : 1046 C. coturnix FIFRA 71-1

Bees Oral LD50 µg/bee

Chemical name

2,4-D-2-ethylhexyl : 100

Florasulam : > 100 FIFRA 141-1; EPPO

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12.2. Persistence and degradability

Abiotic Degradation Water DT50 days

Chemical name

2,4-D-2-ethylhexyl : 0.1 OECD 308

Florasulam : 98 - 100 pH 9, 25 ° C

Soil DT50 days Chemical name

2,4-D-2-ethylhexyl : 1.4

Florasulam : 0.7 - 4.5 aerobic 20 °C

**OECD 307** 

Biodegradation Chemical name

2,4-D-2-ethylhexyl : Not available

Florasulam : Not readily biodegradable

12.3. Bioaccumulative potential

Partition Coefficient <u>Values</u> <u>Method</u> <u>Remarks</u>

(n-octanol/water) Log Pow Chemical name

2.4-D-2-ethylhexyl : 5.78 OECD 121

Florasulam : -1.22 pH 7

**Bioconcentration factor (BCF)** 

Chemical name

2,4-D-2-ethylhexyl : Not available

Florasulam : 0.8 - 2.2

12.4. Mobility in soil

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

 Chemical name

 2,4-D-2-ethylhexyl
 : 4.92
 OECD 121
 KOC

 Florasulam
 : 4 - 54
 KOC

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. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues/unused Dispose of waste in accordance with environmental legislation. Dispose of in accordance

**products** with local 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: Transport information**

ADR

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**14.1 UN number** UN3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D-2-ethylhexyl,

Florasulam)

14.3 Transport hazard class(es) 9
14.4 Packing group | | | |

**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(2,4-D-2-ethylhexyl, Florasulam), 9, III

14.5 Environmental hazard Ye

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 601, 375

Classification code M6

RID

**14.1 UN number** UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D-2-ethylhexyl,

Florasulam)

14.3 Transport hazard class(es) 9
14.4 Packing group |||

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(2,4-D-2-ethylhexyl, Florasulam), 9, III

Environmental hazard Yes
Special Precautions for Users
14.5 Environmental hazard Yes

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 375, 601

Classification code M6

**IMDG** 

**14.1 UN number** UN3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D-2-ethylhexyl,

Florasulam)

14.3 Transport hazard class(es)914.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(2,4-D-2-ethylhexyl, Florasulam), 9, III, Marine pollutant

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

14.5 Marine pollutant P
Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 969 EmS-No F-A, S-F

IMDG Stowage and segregation Category A No information available

**14.7 Maritime transport in bulk** No information available

according to IMO instruments

<u>IATA</u>

**14.1 UN number** UN3082

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D-2-ethylhexyl,

Florasulam)

14.3 Transport hazard class(es) 9

14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

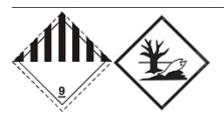
(2,4-D-2-ethylhexyl, Florasulam), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

ERG Code 9L



\* 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

#### National regulations

Trade name / designation Registration Number(s) Date

Not Applicable Not Applicable Not Applicable

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

#### 15.2. Chemical safety assessment

Chemical Safety Report A risk assessment was performed according to directive (EC) No. 91/414 or according to

regulation (EC) No. 1107/2009.

# **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

# Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Revision date 15-Feb-2023

Reason for revision SDS sections updated

### Abbreviations and 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

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

# Classification of the mixture Classification procedure

H317 - May cause an allergic skin reaction

Classification based on test data

H400 - Very toxic to aquatic life

Classification based on test data

H410 - Very toxic to aquatic life with long lasting effects

Classification based on Calculation method

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

#### **Disclaimer**

The information provided in this 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