



SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Saflufenacil 160 SL

Revision date 20-Jul-2026

Version 4 Supersedes Date: 14-Oct-2024

Product Code(s)

HRB01150-GHS

Print Date 20-Jul-2026

ADM.08650.H.1.A 9510922

1. Identification

Product identifier

Saflufenacil 160 SL

Other means of identification

Formulation type SL
Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Herbicide
Uses advised against No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier

ADAMA Agricultural Solutions Ltd.
Golan Street AirPort City, O.B 298, 7019900, Israel

Emergency telephone number

Emergency Telephone ADAMA Makhteshim: + 972 8 6560800/801 ; + 972 8 6296713/714
ADAMA Agan : + 972 8 8515341

E-mail address SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Oral	Category 3 - (H301)
Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Serious eye damage/eye irritation	Category 2A - (H319)
Skin sensitization	Category 1 - (H317)
Reproductive toxicity	Category 2 - (H361)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 2 - (H411)

Label elements

Signal word

Danger

Hazard pictograms



Hazard statements

H301 - Toxic if swallowed
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H331 - Toxic if inhaled
 H361 - Suspected of damaging fertility or the unborn child
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P102 - Keep out of reach of children
 P203 - Obtain, read and follow all safety instructions before use
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P270 - Do not eat, drink or smoke when using this product
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 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 which do not result in classification

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

3. Composition/information on ingredients**Substance**

Not applicable

Mixture

Chemical name	CAS No.	Weight-%	EC No.	INTERNATIONAL GHS CLASSIFICATION	M-Factor
ethoxylated coconut fatty acid amine	61791-14-8	57-64		Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	
Pentanoic acid, 5-(dimethylamino)-2-methyl-5-oxo-, methyl ester	1174627-68-9	22-28		Eye irrit. 2 (H319)	
Saflufenacil	372137-35-4	13-17	619-504-2	Skin Sens. 1 (H317) Repr. 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	

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

4. First-aid measures

Description of necessary 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.
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. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink plenty of water. Get medical attention immediately if symptoms occur.

For emergency responders

Self-protection of the first aider	Use personal protective equipment as required.
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Most important symptoms/effects, acute and delayed

Symptoms	None known.
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Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians	Treat symptomatically.
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5. Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
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Specific hazards arising from the chemical

Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
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Specific/special fire-fighting measures

Specific/special fire-fighting measures	No information available.
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Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.
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6. Accidental release measures

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. Do not breathe vapor or mist.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

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 Pick up and transfer to properly labeled containers.

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

Other information Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. 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. Do not breathe vapor or mist. Handle product only in closed system or provide appropriate exhaust ventilation.

Precautions for safe handling

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

Control Parameters

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

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

Hand protection Wear suitable gloves.

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

Skin and body protection Wear suitable protective clothing.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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

9. Physical and chemical properties**Information on basic physical and chemical properties**

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Color	: brown copper		
Odor	: No information available		
Odor threshold	: No data available		
pH	: 7 - 9	CIPAC MT 75.3	
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: 160	EEC A.9	
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: No data available		
Vapor density	: No data available		
Relative density	: 1.106	EEC A.3 OECD 109	
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm ² /s 40 °C	: ---		No data available
Explosive properties	: Not an explosive		
Oxidizing properties	: No data available		
Surface tension	: 382 mN/m	OECD 115 EEC A.5	
Particle Size	: Not applicable		
<u>Other information</u>			
Bulk density g/ml	: Not applicable		

10. Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Excessive heat.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on toxicological effects

Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 300	Rat	OECD 423	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 LC50 (4 hr)	: 1	Rat	OECD 436	
Skin corrosion/irritation	: Non-irritating to the skin	in vitro	OECD 439	
Serious eye damage/eye irritation	: Irritating to eyes	Rabbit	OECD 405	
Sensitization	: Skin sensitizer	Mouse	OECD 429	

Chronic toxicity

Germ cell mutagenicity

Chemical name

Saflufenacil : Not classified

Carcinogenicity

Chemical name

Saflufenacil : Not classified

Reproductive toxicity

Chemical name

Saflufenacil : H361 - Suspected of damaging fertility or the unborn child

STOT - Single Exposure**Chemical name**

Saflufenacil : Not classified

STOT - Repeated Exposure**Chemical name**

Saflufenacil : Not classified

Aspiration hazard**Chemical name**

Saflufenacil : Not classified

12. Ecological information**Ecotoxicity****Aquatic toxicity****Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/L	: 19.19	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/L	: 29.67	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/L	: 0.189	P. subcapitata	OECD 201	
Other plants EC50 mg/l	:			No data available

Chronic aquatic toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
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**

Saflufenacil : > 2000

Bees Oral LD50 µg/bee**Chemical name**

Saflufenacil : > 100

Abiotic Degradation**Water DT50 days****Chemical name**

Saflufenacil : 248

Soil DT50 days**Chemical name**

Saflufenacil : 8.6 - 26 25 °C

Biodegradation**Log Pow****Chemical name**

Saflufenacil : 1.95

Bioconcentration factor (BCF)**Chemical name**

Saflufenacil : 3.91

Adsorption/Desorption	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Chemical name			
Saflufenacil	: 9 - 56		KOC

13. Disposal considerations

Disposal methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport information

ADR

14.1 UN number or ID number	UN2902
14.2 UN proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. (ethoxylated coconut fatty acid amine)
14.3 Transport hazard class(es)	6.1
Labels	6.1
14.4 Packing group	III
Description	UN2902, PESTICIDE, LIQUID, TOXIC, N.O.S. (ethoxylated coconut fatty acid amine), 6.1, III, (E), Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 274, 648
Classification code	T6
Tunnel restriction code	(E)

RID

14.1 UN number or ID number	UN2902
14.2 UN proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. (ethoxylated coconut fatty acid amine)
14.3 Transport hazard class(es)	6.1
Labels	6.1
14.4 Packing group	III
Description	UN2902, PESTICIDE, LIQUID, TOXIC, N.O.S. (ethoxylated coconut fatty acid amine), 6.1, III, Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 274, 648
Classification code	T6

IMDG

14.1 UN number or ID number	UN2902
14.2 UN proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. (ethoxylated coconut fatty acid amine)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN2902, PESTICIDE, LIQUID, TOXIC, N.O.S. (ethoxylated coconut fatty acid amine), 6.1, III, Marine pollutant
14.5 Marine pollutant	P
Environmental hazards	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 223, 274
EmS-No	F-A, S-A

IMDG Stowage and segregation Category A SW2

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA

14.1 UN number or ID number	UN2902
14.2 UN proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. (ethoxylated coconut fatty acid amine)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN2902, PESTICIDE, LIQUID, TOXIC, N.O.S. (ethoxylated coconut fatty acid amine), 6.1, III
14.5 Environmental hazards	Yes
14.6 Special Precautions for Users	
Special Provisions	A3, A4
ERG Code	6L

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

16. Other information

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
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 20-Jul-2026

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

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

IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

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
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

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture

H301 - Toxic if swallowed
H331 - Toxic if inhaled
H319 - Causes serious eye irritation
H361 - Suspected of damaging fertility or the unborn child
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Classification procedure

Classification based on test data
Classification based on test data
Classification based on test data
Classification based on test data
Classification based on test data
Classification based on Calculation method
Classification based on Calculation method

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