



# SAFETY DATA SHEET

## Glyphosate 360 Oxyfluorfen 30 SC

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Version 2

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H-0322-17288-RAII 17288 AG-GO2-390 SC

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

#### Product identifier

## Glyphosate 360 Oxyfluorfen 30 SC

Pure substance/mixture

Mixture

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

Recommended Use

Herbicide

Uses advised against

No information available

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

Supplier Address

ADAMA Agan Ltd  
P.O.B. 262  
ASHDOD 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 aquatic toxicity

Category 1 - (H400)

Chronic aquatic toxicity

Category 1 - (H410)

#### Label Elements

#### Hazard pictograms



<b>Signal word</b>	Warning
<b>Hazard Statements</b>	H410 - Very toxic to aquatic life with long lasting effects
<b>Precautionary Statements</b>	P102 - Keep out of reach of children 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
Oxyfluorfen	2 - 4	42874-03-3
Glyphosate, isopropylamine salt	39-44	38641-94-0

**Section 4: FIRST AID MEASURES****First aid measures**

<b>General advice</b>	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!.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
<b>Self-protection of the first aider</b>	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****Note to physicians** Treat symptomatically.**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**

In the event of fire, wear self-contained breathing apparatus  
In the event of fire and/or explosion do not breathe fumes.

**Section 6: ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Use personal protective equipment as required.

**For emergency responders**

Use personal protection recommended in Section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

**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**

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

**General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

**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.

**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**

Exposure controls

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Tight sealing safety goggles.
<b>Body Protection</b>	Suitable protective clothing.
<b>General Hygiene Considerations</b>	When using do not eat, drink or smoke. Wash contaminated clothing before reuse.
<b>Environmental exposure controls</b>	Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**Physical and Chemical Properties

<u>Property</u>	<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>				
	Physical state	: Liquid		
	Color	: light green		
	Odor	: characteristic		
	Odor threshold	: No data available		
	pH	: 4.4 - 5.4	CIPAC MT 75.3	solution (1 %)
	Melting point/freezing point °C	: ----		Not Applicable
	Boiling point/boiling range °C	: No data available		
	Flash point °C	: > 100	ISO 2719:2002	
	Evaporation rate	: Not Applicable		
	Flammability (solid, gas)	: Not applicable for liquids		
	Upper/lower flammability or explosive limits	: No data available		
	Vapor pressure kPa	: ----		Not Applicable
	Vapor density	: No data available		
	Relative density	: 1.13 - 1.23	CIPAC MT 3.3	20 °C
	Solubility(ies) mg/l	: ----		Not Applicable
	Partition Coefficient (n-octanol/water) Log Pow	:		See Section 12 for more information
	Autoignition temperature °C	: No data available		
	Decomposition temperature °C	: No data available		
	Kinematic viscosity mm <sup>2</sup> /s 40 °C	: 874.6		
	Explosive properties	: Not an explosive		
	Oxidizing properties	: Not oxidizing		
<b>Other Information</b>				
	Bulk density g/ml	:		Not Applicable
	Surface tension mN/m	: 28.9	EEC A.5	25 °C

**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**

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## Section 11: TOXICOLOGY INFORMATION

**Information on toxicological effects**

**Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 2000	Rat	OECD 401	
Dermal LD50 mg/kg	: > 4000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: > 1.05	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	: Not a skin sensitizer	Guinea pig	OECD 406	

**Chronic toxicity**

**Germ cell mutagenicity**

**Chemical Name**

Oxyfluorfen : Not classified  
 Glyphosate, isopropylamine salt : Not classified

**Carcinogenicity**

**Chemical Name**

Oxyfluorfen : Not Carcinogenic  
 Glyphosate, isopropylamine salt : Not Carcinogenic

**Reproductive toxicity**

**Chemical Name**

Oxyfluorfen : Not toxic for the reproductive system  
 Glyphosate, isopropylamine salt : Not toxic for the reproductive system

**STOT - single exposure**

**Chemical Name**

Oxyfluorfen : No data available  
 Glyphosate, isopropylamine salt : No data available

**STOT - repeated exposure**

**Chemical Name**

Oxyfluorfen : No data available  
 Glyphosate, isopropylamine salt : No data available

**Aspiration hazard**

**Chemical Name**

Oxyfluorfen : No data available  
 Glyphosate, isopropylamine salt : No data available

<b>Section 12: ECOLOGICAL INFORMATION</b>
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**Toxicity****Aquatic toxicity**

<b>Acute toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>	<b>Remarks</b>
Fish 96-hour LC50 mg/l	: 683.6	Rainbow trout	OECD 203	
Crustacea 48-hour EC50 mg/l	: 79.3	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 0.0167	P. subcapitata	OECD 201	
Other plants EC50 mg/l	: 0.0361	Lemna gibba	OECD 221	7 days

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical Name**

Oxyfluorfen	: > 947	Bobwhite quail	
Glyphosate, isopropylamine salt	: > 2000		

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

Oxyfluorfen	: > 100
Glyphosate, isopropylamine salt	: 100

**Persistence and degradability****Abiotic Degradation****Water DT50 days****Chemical Name**

<b>Abiotic Degradation</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
Water DT50 days			
Chemical Name			
Oxyfluorfen	: ----		Stable
Glyphosate, isopropylamine salt	: 1 - 4		

**Soil DT50 days****Chemical Name**

Oxyfluorfen	: 68 - 533		
Glyphosate, isopropylamine salt	: 4 - 180		20 °C

**Biodegradation****Chemical Name**

Oxyfluorfen	: No data available
Glyphosate, isopropylamine salt	: Not readily biodegradable

**Bioaccumulative potential****Partition Coefficient****(n-octanol/water) Partition****Coefficient (n-octanol/water) Log****Pow****Chemical Name**

<b>Partition Coefficient</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
(n-octanol/water) Partition Coefficient (n-octanol/water) Log Pow			
Chemical Name			
Oxyfluorfen	: 4.86	EEC A.6	
Glyphosate, isopropylamine salt	: -3.2		pH 5-9, 25 ° C

**Bioconcentration factor (BCF)****Chemical Name**

Oxyfluorfen	:	No data available
Glyphosate, isopropylamine salt	: < 1	

**Mobility in soil****Adsorption/Desorption****Chemical Name**

<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
Chemical Name			
Oxyfluorfen	: 7565		Koc

Glyphosate, isopropylamine salt : 24000

Koc

**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**

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORTATION INFORMATION**

**IMDG/IMO**

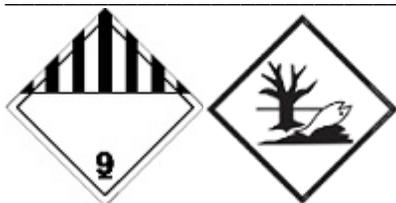
<b>UN/ID No *</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Glyphosate Isopropylamine salt, Oxyfluorfen )
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Marine pollutant</b>	Yes
<b>Special precautions for user</b>	

**RID/ADR**

<b>UN/ID No *</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Glyphosate Isopropylamine salt, Oxyfluorfen )
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Environmental hazard</b>	Yes
<b>Special precautions for user</b>	

**ICAO/IATA**

<b>UN/ID No *</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Glyphosate Isopropylamine salt, Oxyfluorfen )
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Environmental hazard</b>	Yes
<b>Special precautions for user</b>	
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	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

3.

### 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