



SAFETY DATA SHEET

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

Clipper

Revision date 15-Feb-2024

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Product Code(s)

HRB00996-44/1

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AG-G2-360 SL1 (ADM.03550.H.2.A)

17266

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

1.1. Product identifier

Clipper

Other means of identification

Synonyms

Glyphosate 360 SL

Pure substance/mixture

Mixture

Formulation type

SL

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 Agricultural Solutions UK Ltd

Third Floor East

1410 Arlington Business Park

Theale

READING

RG7 4SA

Tel: 01635 860555

Fax: 01635 861555

For further information, please contact

E-mail address

ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone

UK: National Chemical Emergency Centre:

Tel: 01856 407333 (24 hours, 7 days a week)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

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

Hazard pictograms**Signal word** None

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Precautionary Statements P102 - Keep out of reach of children**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
Glyphosate, isopropylamine salt	38641-94-0	254-056-8		39-44	Aquatic Chronic 2 (H411)			No data available
N-N-dimethyl-C12-14-(even numbered)-alkyl-1-amines, reaction products with potassium hydroxide and chloroacetic acid	-	939-682-8		3.0-3.5	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)			01-211998007 1-43-0000

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 doctor.
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.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a doctor if necessary.
Ingestion	Rinse mouth. Drink plenty of water. Get medical attention immediately if symptoms occur.
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 doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the 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 chemical No information available.

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 Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. 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.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation.
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 container tightly closed in a dry and well-ventilated place.
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7.3. Specific end use(s)

Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
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Derived No Effect Level (DNEL)	No information available.
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Predicted No Effect Concentration (PNEC)	No information available.
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8.2. Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
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Personal protective equipment

Eye/face protection	Tight sealing safety goggles.
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Hand protection	Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).
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Skin and body protection	Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.
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Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
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General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
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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

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Colour	: Transparent yellowish		
Odour	: characteristic		
Odour threshold	: No data available		
pH	: 4.5-6.5	CIPAC MT 75.3	
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: >155	92/69/EEC A.9	Based on similar formulation
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not flammable		
Upper/lower flammability or explosive limits	: No data available		
Vapour pressure kPa	: No data available		
Vapour density	: No data available		
Relative density	: 1.14-1.18	EEC A.3	20 °C
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: 460	EEC A.15	Based on similar formulation
Decomposition temperature °C	: No data available		
Kinematic viscosity mm ² /s 40 °C	: 13.3	CIPAC MT 192	
Surface tension	: 32.3 mN/m (16% v/v)	OECD 115 EC A.5	
Particle Size	: Not applicable		

9.2. Other information

Bulk density g/ml : Not applicable

9.2.1. Information with regards to physical hazard classes

Explosive properties : Not an explosive
Oxidising 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>	<u>Remarks</u>
Oral LD50 mg/kg	: >2000	Rat	OECD 423	Based on similar formulation
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	Based on similar formulation
Inhalation LC50 mg/l	: >30	Rat	OECD 403	Based on similar formulation
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	Based on similar formulation
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	Based on similar formulation
Sensitisation	: Not a skin sensitiser	Guinea pig	OECD 406	Based on similar formulation

Chronic toxicity

Germ cell mutagenicity

Chemical name

Glyphosate, isopropylamine salt : Not classified

Carcinogenicity

Chemical name

Glyphosate, isopropylamine salt : Not Carcinogenic

Reproductive toxicity

Chemical name

Glyphosate, isopropylamine salt : Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Glyphosate, isopropylamine salt : Not classified

STOT - Repeated Exposure

Chemical name

Glyphosate, isopropylamine salt : Not classified

Aspiration hazard

Chemical name

Glyphosate, isopropylamine salt : 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**

<u>Acute toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: >100	Oncorhynchus mykiss	OECD 203	Based on similar formulation; Static
Crustacea 48-hour EC50 mg/l	: >100	Daphnia magna	OECD 202	Based on similar formulation; Static
Algae 72-hour EC50 mg/l	: 8.85	P. subcapitata	OECD 201	Static
Other plants EC50 mg/l	: 57.4	Myriophyllum spicatum	OECD 239	Static 14 days
<u>Chronic aquatic toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	: 100	Oncorhynchus mykiss	OECD 204	Based on similar formulation; 28d; semi-static
Crustacea NOEC mg/l	: 5.4	Daphnia magna	OECD 202	Based on similar formulation; 21d
Algae NOEC mg/l	: 1.28	P.subcapitata	OECD 201	Static; 72h
Other plants NOEC mg/l	: 17.1	Lemna gibba; Myriophyllum spicatum	OECD 221; OECD 239	7d Lemna gibba; 14d Myriophyllum spicatum
Terrestrial Toxicity				
Birds Oral LD50 mg/kg				
Chemical name				
Glyphosate, isopropylamine salt	: >2000	Bobwhite quail		
Bees Oral LD50 µg/bee				
Chemical name				
Glyphosate, isopropylamine salt	: >40	Apis mellifera		

12.2. Persistence and degradability**Abiotic Degradation****Water DT50 days****Chemical name**

Glyphosate, isopropylamine salt : 8.4-195.8 OECD 308 pH 8.2-8.6; 20 °C; total system

Soil DT50 days**Chemical name**

Glyphosate, isopropylamine salt : 2.2-161.1 OECD 307 pH 5.7-7.4; 20 °C

Biodegradation**Chemical name**

Glyphosate, isopropylamine salt : Not readily biodegradable

12.3. Bioaccumulative potential**Partition Coefficient****(n-octanol/water) Log Pow****Values****Method****Remarks**

Chemical name
Glyphosate, isopropylamine salt : -4.16 pH 4.3-6.2; 20 ° C

Bioconcentration factor (BCF)
Chemical name
Glyphosate, isopropylamine salt : Low bioaccumulation potential

12.4. Mobility in soil

<u>Adsorption/Desorption</u> <u>Chemical name</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Glyphosate, isopropylamine salt	: 1031-9615		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 products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance 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

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Precautions for Users	
Special Provisions	None

RID

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
Environmental hazard	Not Applicable
Special Precautions for Users	
14.5 Environmental hazard	Not Applicable
14.6 Special Precautions for Users	
Special Provisions	None

IMDG

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated

14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Precautions for Users	
14.5 Marine pollutant	Not applicable
14.6 Special Precautions for Users Special Provisions	None No information available
14.7 Maritime transport in bulk according to IMO instruments	No information available

IATA

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Precautions for Users Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (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**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

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-2024

Reason for revision Section 9; Section 11; Section 12

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

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