

SAFETY DATA SHEET (SDS)

TITLE: GLYPHOSATE 360 SL

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Product Name : CIBA GLYPHOSATE 360 SL
Common Name : Glyphosate 360g/l SL
CAS No. : 38641-94-0
EC No. : 254-056-8
Index Number : N/A
REACH registration No. : N/A

1.2 Relevant identified uses of the substance and uses advised against:

Herbicide

0.1 Details of the Manufacturer / Supplier of the safety data sheet:

Supplier CIBA AGRIPHARMA SARL
78 Boulevard Haussmann
75008 Paris , France
Tel Tel: +33 6 51 39 90 00
E-mail administration@ciba-agripharma.com
Webpage www.ciba-agripharma.com

0.2 Emergency Phone Number (24 hours)

+33 6 51 39 90 00

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008 (CLP).

1272/2008/EU

Pictograms / Signal word code (s)	Hazard Statement Code (s)
GHS09	H411

2.1.2 The most important adverse effects

The most important adverse human health effects: Health Hazards: Warning: Causes substantial but temporary eye injury. Harmful if swallowed or inhaled.

The most important adverse environmental effects: N/A

2.2 Label elements of the mixture

2.2.1 According to 1272/2008/EU REGULATION

Pictograms / Signal word code (s)



GHS09

Hazard Statement code (s)

H411 : Toxic to aquatic life with long lasting effects

2.3 Other hazards

Specific concentration Limits and M factors (for active substance): M = n/a

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name / CAS No	% w/v	Hazard Pictograms (1272/2008/EC)	Hazard Statements (1272/2008/EC)
Glyphosate Isopropyl salt/38641-94-0	48% w/v	GHS09	H411
Inert ingredients	Up to 100%	-	-

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

Never give fluids or induce vomiting if patient is unconscious or is having convulsions

4.1.1 In case of swallowed

Do not induce vomiting. Call a doctor or get medical attention

4.1.2 In case of eyes contact

Flush eyes immediately with fresh water or eyewash solution for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Get medical attention immediately.

4.1.3 In case of skin contact

Remove contaminated clothing, wash skin with plenty of soap and water. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing before reuse. Get medical attention immediately.

4.1.4 In case of inhalation

4.1.5 Remove patient from exposure, keep warm and at rest. Consult a physician. Notes for the doctor

N/A

4.1.6 **Most important symptoms and effects, both acute and delayed:** acute: temporary eye irritation and conjunctivitis, gastrointestinal discomfort. Ingestion of large quantities, may result in hypotension and pulmonary edema. Chronic: skin irritation

Dermal contact and inhalation are expected to be the primary routes of occupational exposure.. Prolonged exposure may cause dermal irritation. Ingestion has been reported to product gastrointestinal discomfort nausea, vomiting and diarrhoea.

4.1.7 Indication of any immediate attention and special treatment needed : N/A

5.0 FIRE – FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Foam, Carbon dioxide, Dry chemical powder, Water –fog or fine spray

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus (pressure-demand NIOSH approved or equivalent) and full protective gear. Contain run-off. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire.

5.4 Additional information

N/A

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment : Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow. Remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to launder.

6.2 Environmental precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

See section §13.

6.3.2 For cleaning up

Soak up with sand or other compatible absorbent material and place into containers for disposal. For Large spill, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

6.3.3 Other information

N/A

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information: N/A

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Use proper protective equipment to minimize personal exposure. Do not let it contact with eyes, skin, or clothing.

7.1.2 Advice on general occupational by hygiene

Use good personal hygiene. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke while working.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Store the product in closed original containers. Protect from light and humidity. Not store near food, drink or animal feeding stuffs. Keep out of reach of children.

Further information on storage conditions : N/A

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits : N/A

8.1.2 Additional exposure limits under the conditions of use: N/A

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

8.2.2 Personal protection equipment

8.2.3 See section 8.2.4

8.2.4 Eye / Face protection

Use chemical goggles.

8.2.5 Respiratory protection

For most conditions, no respiratory protection should be need. However, when airborne exposure guidelines and/or comfort levels may be exceeded use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

8.2.6 Skin Protection

For brief contact, no precautions other than clean body-covering clothing and chemical resistant gloves should be needed. Use chemical resistant gloves classified under standard EN 374; Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Nitrile. Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Avoid gloves made of: Polyvinyl alcohol ("PVA").

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

Notice: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be

handles, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

8.2.7 Environmental exposure control

Good general ventilation

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	:	Clear, viscous liquid
Colour	:	Yellow liquid
Odour	:	Practically odourless to slightly amine-line odour
Flash point (°C)	:	None (water based)
Density (20°C)	:	1,17 kg/m ³
pH	:	4.5-6.5
Upper/lower flammability/explosive limits	:	Not flammable
Auto-ignition temperature	:	Does not self-ignite

9.2 Other information

N/A

10.0 STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No information available

10.4 Conditions to avoid

Excessive heat.

10.5 Incompatible materials

Strong basic, acidic or oxidising materials.

10.6 Hazardous decomposition products:

None under normal conditions of storage and use.

11.0 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Routes of entry

Oral:	LD ₅₀ (RAT) 5400 mg/kg, practically non toxic
Dermal :	LD ₅₀ (Rabbit) >5000 mg/kg
Inhalation	LC ₅₀ (Rabbit, 4hr) 3.18 mg/L slightly toxic
Skin corrosion/Irritation	: (Rabbit, 24 hr) FHSA Score=4.3 on a scale of 8.0 Moderately irritating, DOT Skin Irritation (Rabbit,4hr) not corrosive
Serious eye damage/irritation	: (Rabbit, 24 hr) FHSA Score=4.1 on a scale of 110.0 slightly irritating
Respiratory or skin sanitization	: Not available
Repeated exposure	: Not available

Other information

Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT- single exposure	: Not available
STOT- repeated exposure	: Not available
Aspiration hazard	: Not available

12.0 ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Aquatic Toxicity

Rainbow trout LC ₅₀ (96 hours):	8.2 mg/L, Moderately Toxic
Bluegill sunfish LC ₅₀ (96 hours):	5.8 mg/L, Moderately Toxic
Daphnia magna EC ₅₀ (48 hours):	(With Aeration) 37 mg/L, Slightly Toxic (Without Aeration) 24 mg/L, Slightly Toxic
Channel Catfish LC ₅₀ (96 hours):	16mg/L Slightly Toxic
Fathead Minnow LC ₅₀ (96 hours):	9.4mg/L, Moderately Toxic
Crayfish LC ₅₀ (96 hours) :	>1,000ppm, Practically Non Toxic
Gammarus pseudolimnaeus EC ₅₀ (48 hours) :	42mg/L, Slightly Toxic

Chinook Salmon LC ₅₀ (96 hours):	10mg/L, Slightly Toxic
Coho Salmon LC ₅₀ (96 hours):	22mg/l, Slightly Toxic
Carp LC ₅₀ (96 hours):	19.7ppm, Slightly Toxic

12.1.2 Avian Toxicity

Honeybee LD ₅₀ (48 hours):	>100 microgram/bee, practically non toxic
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12.2 Persistence and degradability :

Not available

12.3 Other adverse effects

Not available

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Wastes that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or buried on site in a safe place so that it will not contaminate water supplies

13.2 Product / Packaging disposal

Do not reuse container. Triple rinse container then puncture and dispose of in a sanitary landfill, or by other procedures approved by provincial and local authorities. Plastic may be burned or incinerated if permissible under provincial and local rules. If burned, stay out of smoke.

Materials resulting from the use of this product should be used according to label instructions if possible. All disposals should be in accordance with applicable Federal Provincial or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until a container is cleaned, reconditioned or destroyed. DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.

14.0 TRANSPORT INFORMATION

14.1 Land transport (ADR/RID/GGVSE)

UN-No	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.(Glyphosate)
Class(es)	:	9
Classification Code	:	M6
Packing group	:	III
Hazard label(s)	:	9

14.2 Sea transport (IMDG-Code/GGVSee)

UN-No	:	3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.(Glyphosate)
Class(es)	:	9
Subsidiary risk	:	-
Special Provision	:	274,909,944
EmS	:	F-A, S-F
Packing group	:	III
Marine Pollutant	:	Yes
Labeling	:	9, Marine Pollutant

14.3 Air transport (ICAO-IATA/DGR)

UN-No	:	3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.(Glyphosate)
Class(es)	:	9
Packing group	:	III
Labeling	:	9

15.0 REGULATORY INFORMATION

15.1 Hazard and Precautionary statements in accordance with the regulation 1272/2008/EC

Pictograms and Signal Word Code(s)	See section 2.
Hazard Statement Code (s)	See section 2.

16.0 OTHER INFORMATION

16.1 Pictograms and Signal Word Code(s) mentioned in section 3 in accordance with the regulation 1272/2008/EC



GHS09

16.2 Hazard and precautionary statements mentioned in section 3 in accordance with the regulation 1272/2008/EC:

H411	:	Toxic to aquatic life with long lasting effects
P273	:	Avoid release to the environment.



16.3 Training advice

N/A

16.4 Further Information

The information contained herein relates only to the specified material identified. CIBA AGRIPHARMA, believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. CIBA AGRIPHARMA Company urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

This material safety data sheet adopts the provision of the Commission Directive 91/155/EEC.