

Safety Data Sheet (SDS) SHA 540SL/01

According to: UN GHS 9th Ed

Revision Date: 2023/11/01

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First print date: 2021/01/21

Version: 2.1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **SHAYA 540SL**

Additional information: Product code SHA 540SL/01

Relevant identification uses of the substance and uses advised against:

Identified uses: Herbicide.

Uses advised against: Use only as directed.

Formulator:

Shandong Weifang Rainbow Chemical Co., Ltd.
Binhai Economic Development Area, Weifang,
Shandong 262737
China

Details of the distributor:

AECI Limited
14 Field Road, LILANTON

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
AECI Limited: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to:

SANS 10234:2019, Regulation EC 1272/2019 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Acute toxicity oral (Category 4)	H302
Acute toxicity dermal (Category 5)	H313
Acute toxicity inhalation (Category 4)	H332
Skin corrosion (Category 1A)	H314
Serious eye damage (Category 1)	H318
Hazardous to the aquatic environment (Acute 3)	H402
Hazardous to the aquatic environment (Chronic 2)	H411

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

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The most important adverse human health effects: Skin burns and severe eye damage.

Label elements

Hazard pictograms:



Signal Word: Warning

Hazard Statements: H302 Harmful if swallowed. H313 May be harmful in contact with skin. H332 Harmful if inhaled. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H402 Harmful to aquatic life. H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements: P260 Do not breathe dust/fume/gas/mist/ vapours/spray. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P264+P265 Wash hands thoroughly after handling. Do not touch eyes. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves. P284 [In case of inadequate ventilation] wear respiratory protection. P302+P352 IF ON SKIN Wash with plenty water. P301+P317 IF SWALLOWED Get medical help. P302 + P317 IF ON SKIN Get medical help. P317 Get medical help. P321 Specific treatment (see on this label). P330 Rinse mouth. P301 + P330 + P331 IF SWALLOWED Rinse mouth. Do NOT induce vomiting. P302 + P361 + P354 IF ON SKIN Take off immediately all contaminated clothing. Immediately rinse with water. for several minutes. P363 Wash contaminated clothing before reuse. P304 + P340 IF INHALED Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P305 + P354 + P338 IF IN EYES Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Special labelling of certain mixtures: None.

Other hazards: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight
	EC-No.	
Glyphosate-potassium	39600-42-5	30-40%
	687-795-3	
Others up to 100%		

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations, applicable are classified as hazardous to health or the environment and hence require reporting in this section.

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Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

In case of ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Symptoms of Glyphosate-potassium poisoning include; headache, vomiting and diarrhoea.

Inhalation: Harmful if inhaled.

Ingestions: Harmful if swallowed.

Skin contact: Causes skin burns.

Eye contact: Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Carbon dioxide, dry powder, or alcohol-resistant foam.

SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

LARGE FIRE: Water spray can be used for cooling of unaffected stock but avoid contact with product and the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

If involved in a fire, the dehydrated components may emit oxides of carbon and oxides of nitrogen.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Keep all personal away. Avoid contact with skin, eyes, clothing.

For emergency responders: Isolate the spill area and limit the access to emergency responders only. Avoid any contact with spilled material, use adequate protective clothes and gloves.

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Environmental precautions:

Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth.

For large spills Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

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.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid prolonged contact with concentrate. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from food, drink and animal feeding stuffs. Product is relatively stable in neutral, weakly acidic and weakly alkaline media, but reacts strongly (and possibly violently) with strong alkalis. Mixing with other products may reduce the activity of glyphosate. Incompatible with galvanized steel and unlined mild steel materials for storage.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None

Biological exposure indices (BEI): None

Additional exposure limits under the conditions of use: None.

Exposure control: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

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Appropriate engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective OEL's if applicable. Ensure that eyewash stations and safety showers are proximal to the workstation location.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use safety glasses. If there is a potential for exposure to mist which could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Wear appropriate clothing for task or operation. Keep working clothes separately.

Respiratory protection: Respiratory protection is required when ventilation is inadequate, or discomfort is experienced; use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Liquid.

Colour: Yellow.

Odour: No information available.

Odour threshold: No information available.

pH (at concentration): 4.4-5.0 (100%).

Melting point/range (°C): No information available

Boiling point/range (°C): No information available

Flash point (°C): No information available.

Evaporation rate: No information available.

Flammability (solid, gas): No information available

Ignition temperature (°C): No information available.

Upper/lower flammability/explosive limits: No information available.

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Vapour pressure (25°C): No information available.

Vapour density: No information available.

Density: 1.37 g/mL.

Water solubility (g/l) at 20°C: No information available.

n-Octanol/Water partition coefficient: No information available.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Physical hazards:

Explosive properties: Not explosive.

Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

SECTION 10. STABILITY AND RELIABILITY

Reactivity:

The product is stable under normal conditions. Photodecomposition is negligible. Is stable to light and also stable up to 60°C.

Chemical stability:

Relatively stable in neutral, weakly acidic and weakly alkaline media; hydrolysed by stronger acids and basis.

Possibility of hazardous reactions:

With strong alkalis products.

Conditions to avoid:

Strong alkalis. Glyphosate may be photolabile in natural waters, with calcium or other metal ions acting as catalysts for the process.

Incompatible materials:

Glyphosate reacts strongly (possibly violent exothermic reaction) with strong alkalis. Photodecomposition is negligible.

Hazardous decomposition products:

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Product is unlikely to spontaneously polymerise or decompose. Decompose only after heating to dryness followed by further heating. Glyphosate may be photolabile in natural waters, with calcium or other metal ions acting as catalysts for the process.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Excretion: Glyphosate is very rapidly excreted unchanged and does not bioaccumulate.

Information on toxicological effects: (ref. pesticide manual 15th ed)

Acute toxicity:

Glyphosate-potassium

Acute oral LD₅₀ for rats >5000 mg/kg.

Acute dermal LD₅₀ >5000 mg/kg.

Inhalation LC₅₀ (4 h) for rats >5.27 mg/L.

Chronic toxicity: No information.

Skin corrosion/irritation:

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Not irritating.

Not a skin irritant for rabbit.

Eye corrosion/irritation:

Shaya 540SL

Moderately irritating.

Glyphosate-potassium

Moderate eye-irritant for rabbit.

Respiratory or skin sensitization:

Shaya 540SL

Not a skin sensitizer.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No Information available.

Aspiration hazard: No information available.

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SECTION 12. ECOLOGICAL INFORMATION

Toxicity: (ref. pesticide manual 15th ed)

Glyphosate-potassium

Birds toxicity:

Acute oral LD₅₀ for bobwhite quail >2241 mg a.e./kg.

Fish toxicity:

LC₅₀ (96 h) for trout >1227 mg a.e./ℓ.

Daphnia:

LC₅₀ (48 h) >1227 mg a.e./ℓ.

Algae:

ErC₅₀ (72 h) for green algae (*Selenastrum capricornutum*) 35 mg a.e./ℓ. ErC₅₀ (72 h) 54 mg a.e./ℓ.

Bees:

LD₅₀ (48 h) for oral and contact >100 g a.e./bee.

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil

Glyphosate-potassium

The major metabolite in soil and water is aminomethylphosphonic acid.

Results of PBT& vPvB assessment:

No information available.

Other adverse effects:

None.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	1760	1760	1760
UN Proper shipping name:	CORROSIVE LIQUID N.O.S	CORROSIVE LIQUID N.O.S	CORROSIVE LIQUID N.O.S

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Transport hazard class:	8	8	8
Packaging group:	I	I	I
Marine pollutant:	YES	YES	YES
Special precautions for user:	Corrosive liquid	Corrosive liquid	Corrosive liquid
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	No information	No information	No information

Inland waterways: No information

Emergency response information: No information

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH).

Relevant information regarding restrictions: None.

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out?

No.

SECTION 16. OTHER INFORMATION

Indication of changes:

All sections.

Relevant classification and H statements (number and full text):

Aquatic acute 3- Hazardous to the aquatic environment (Acute 3).

Aquatic chronic 2- Hazardous to the aquatic environment (Chronic 2).

H302 Harmful if swallowed. H313 May be harmful in contact with skin. H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H402 Harmful to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

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This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.