



SUNFARM AGROCHEMICALS LTD

ADD.: XIAOMIAO TOWN, SHUSHAN DISTRICT, HEFEI, ANHUI, CHINA
WWW.SUNFARMCHEM.COM SUNFARMAGRO@YAHOO.COM +86-15986675013

Material Safety Data Sheet

(In accordance with 2001/58/EC)

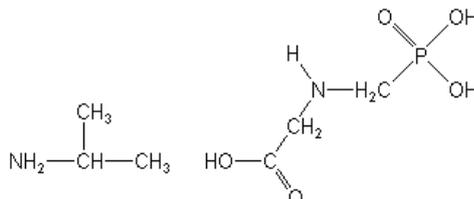
SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **GLYPHOSATE IPA SALT 41% SL (w/w)**

CAS No.: **38641-94-0**

Empirical formula: **C₆H₁₇N₂O₅P**

Structural formula:



Product use: **HERBICIDE**

Molecular weight: **228.20**

Chemical Formulation: **AQUEOUS SOLUTION**

Supplier: **SUNFARM AGROCHEMICALS LTD.**

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition	Content (%w/w)	CAS number
GLYPHOSATE ISOPROPYLAMINE SALT	41% min	38641-94-0

SECTION 3: HAZARDS IDENTIFICATION

Hazardous Substance, non-dangerous goods

Not "dangerous goods" for transport by road or rail

Ingestion: Slightly toxic based on toxicity studies.

Skin irritation: Non-irritating to skin.

Eye irritation: Non-irritating to eyes.

Inhalation: May cause irritation.

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. Keep patient warm and at rest, if symptoms persist, call a physician.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact: Wash off immediately with plenty of water for at least 15 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion: Do NOT induce vomiting. Keep at rest. Rinse mouth. Call a physician or poison control center immediately.

NOTES TO PHYSICIAN

Symptoms: Vomiting, Diarrhoea, Abdominal pain, Tremors, Hypotension, muscular weakness, Unconsciousness, Coma, Convulsions, Respiratory failure, Nausea, Tachycardia

Symptoms: Symptoms may be delayed.

Treatment: Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.



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SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing media:

Water Spray; Foam; Dry Powder; Carbon dioxide

Hazards from combustion products:

In the event of fire the following may be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

Oxides of phosphorus

Precautions for fire-fighting:

In the event of fire, wear self-contained breathing apparatus.

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazchem Code: not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment

Environmental precautions:

Do not allow to get into surface water, drains and ground water.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling

Hygiene measures:

When using, do not eat, drink or smoke.

Handle in accordance with good industrial hygiene and safety practice.

Wash hands thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove soiled clothing immediately and clean thoroughly before using again.

Storage:

Requirements for storage areas and containers

Keep out of the reach of children.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep away from direct sunlight.

Protect from freezing.

Advice on common storage

Keep away from food, drink and animal feeding stuffs.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment - End user

General advice: Eye wash facility and safety shower should be available.

Respiratory protection: Use respiratory protection for organic vapors.

Hand protection: Elbow-length PVC or nitrile gloves

Eye protection: Face-shield or goggles

Skin and body protection: Cotton overall buttoned to the neck and wrist

Washable hat

Engineering Controls

Advice on safe handling

Provide for appropriate exhaust ventilation and dust collection at machinery.

SECTION 9: PHYSICAL PROPERTIES

Appearance

Form: Liquid

Color: Light Yellow to Golden Yellow

Odour: Slight odor

Safety data

Ph: 4.0-7.0 at 100% (23°C)

Flash Point: Do not flash

Ignition temperature: Non-flammable

Density: 1.16-1.17g/cm³ at 20°C

Solubility: Water Soluble

Stability: Stable for at least two years under normal storage and usage conditions

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable at normal temperatures.

Hazardous polymerization: Will not occur.

Conditions to avoid: Acids, Bases.

Material to avoid: Strong Oxidizing agents, acids, Bases, Alkali metals

Hazardous decomposition on Products: Noxious fumes produced under fire conditions may include carbon monoxide, carbon dioxide, nitrogen oxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingestion (oral): Practically non-toxic (rat LD₅₀ > 5000 mg/kg)

Skin (dermal): Practically non-toxic (rabbit LD₅₀ > 5000 mg/kg)

Inhalation: LC₅₀ (4h) > 5.0 mg/L for rats

Eye irritation: Non-irritating to eyes

Skin irritation: Practically non-irritating to rabbit skin.

Sensitization: Not a skin sensitizer (Guinea pigs)



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SECTION 12: ECOLOGICAL INFORMATION

BIRDS: Acute oral LD₅₀ for bobwhite quail >3851 mg/kg. Dietary LC₅₀ (8 d) for quail and ducks >4640 mg/kg diet.

FISH: LC₅₀ (96 h) for trout 86, bluegill sunfish 120, harlequin fish 168, sheepshead minnows >1000 mg/l. Daphnia: LC₅₀ (48 h) 780 mg/l.

ALGAE: EC₅₀ (72 h) for *Selenastrum capricornutum* 485 mg/l, (7 d) 13.8 mg/l; (96 h) for *Skeletonema costatum* 1.2 mg/l, (7 d) 0.64 mg/l; (7 d) for *Navicula pelliculosa* 42, *Anabaena flos-aquae* 15 mg/l.

BEES: LD₅₀ (contact and oral) >100 mg/bee.

SECTION 13: DISPOSAL CONSIDERATIONS

See the individual container label for disposal information.

Emptied packages retain product residue and dust.

Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Empty packaging completely stored for collection by approved waste disposal service.

Do not re-use containers.

Recycle if appropriate facilities/equipment available. Bury in approved landfill.

Follow all local/regional/national/international regulations.

SECTION 14: TRANSPORT INFORMATION

According to national and international transport regulations:

not classified as dangerous goods

UN Number: not applicable

Proper Shipping Name: Contains no hazardous ingredients

Dangerous Goods Class: Not regulated

Packing Group: Not regulated

SECTION 15: REGULATORY INFORMATION

Risk phrases:

R22 Harmful if swallowed

Safety phrases:

S1/2 Keep locked up and out of reach of children

S28 After contact with skin, wash immediately with plenty of (to be specified by manufacturer)

S36/37 Wear suitable protective clothing and suitable gloves

S61 Avoid release to the environment. Refer to special instructions/safety data sheets

SECTION 16: OTHER INFORMATION

This MSDS summarizes best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.



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Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. ----End of MSDS

For and on behalf of
SUNFARM AGROCHEMICALS LTD.