

## Material Safety Data Sheet

### 1. Identification of the substance/preparation and the company.

Product: 41% w/w Glyphosate isopropylamine salt + 10% surfactant

Company

Manufacturer / Supplier: Changzhou Good-job Biochemical CO., LTD.

Address: No. 398, Middle TongJiang Road, Xinbei District Changzhou city, Jiangsu, China

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### 2. Composition/Information on Ingredient

Component	CAS Number	Conc. %w/w	R Phrases
Glyphosate in the form of its isopropylamine salt	1071-83-6	41	
Inert materials including Ethoxylated tallowamines	61791-83-9	59	

### 3. Hazards Identification

Harmful if swallowed or inhaled.

### 4. First Aid Measures

**Skin Contact:** Remove contaminated clothing. Wash the affected area immediately with soap and water.

**Eye Contact:** Rinse out with plenty of water with the eyelid held wide open. Seek medical attention.

**Inhalation:** Remove the patient to fresh air. Provide oxygen/artificial respiration where necessary. Seek medical attention.

**Ingestion:** Immediately give the patient water or milk to drink to act as a dilutant. Immediately seek medical attention, as the product will cause irritation of the gastrointestinal tract.

**Further Information:** For further advice on treatment contact the nearest Poisons Information Center.

### 5. Fire-fighting Measures

**Suitable extinguishing media:** Water(flood with water), carbon dioxide, foam or dry powder.

**Special protective equipment for fire-fighting:** Wear self contained breathing apparatus.

**Other Information:** Contain fire-fighting water with sand or some such bunding material.

### 6. Accidental Release Measures

**Personal precautionary measures:**

Wear the personal protective equipment outlined in section 8 below.

**Environmental-protection measures:**

Keep the area isolated and do not allow contamination to enter drains or waterways.

Spillage or uncontrolled discharges into watercourses must be alerted to the National Rivers Authority. If the product has entered a watercourse or sewer, or grossly contaminated soil or vegetation in a public place, advise police.

**Procedures for cleaning/absorption:**

Contain/absorb the spillage with a suitable inert absorbent material or sand which should then be transferred to secure containers and sent for disposal.

## 7. Handling and Storage

**Handling:** Do not get in the eyes or on clothing. Avoid breathing spray mist. Wash hands before eating or drinking. Do not apply directly to water or in areas where there is surface water. Do not store, mix or apply the product in galvanised or unlined steel (except stainless steel) containers.

**Storage:** Store in a cool area in the original containers, access should only be for authorised persons. Store in a well-ventilated area away from reducing agents and acids. Keep away from food and feed.

## 8. Exposure Controls/Personal Protection

**Personal protective equipment:**

Eye protection: Wear safety goggles conforming to BS 2092.

Hand protection: Wear nitrile gloves.

Respiratory protection: If the ventilation is not adequate wear an approved respirator for pesticides.

**Industrial Hygiene:**

Do not get in the eyes or on clothing. Avoid breathing spray mist. Wash hands before eating or drinking.

## 9. Physical and Chemical Properties

<b>Form:</b>	Liquid
<b>Colour:</b>	Pale yellow
<b>Odour:</b>	Slight amine-like odour.
<b>Specific gravity:</b>	1.17 @ 25°C
<b>pH:</b>	4.7 (1% solution)

## 10. Stability and Reactivity

**Substances to be avoided:** Acids and bases.

**Further information:** Stable at ambient conditions. Hazardous products of decomposition include carbon dioxide, carbon monoxide and nitrous oxide.

## 11. Toxicological Information

**Acute toxicity:**

LD<sub>50</sub>(oral, rat): >5000mg/kg                      LD<sub>50</sub>(dermal, rabbit): >5000mg/kg

LC<sub>50</sub>(inhalation, rat, 4hr): 2.6mg/l

**Further toxicological information:**

Eye irritation: After a 24hour exposure rabbits showed slight to moderate irritation. At 14 days irritation was evident but had cleared by 21 days.

Skin irritation: After a 4 hour exposure rabbits showed slight redness which cleared in 24 hours therefore the product is essentially non-irritating to skin.

No skin allergy was observed in guinea pigs following repeated skin exposure.

**12. Ecological Information**

<b>Aquatic toxicity:</b>	Rainbow Trout LC <sub>50</sub> (96hr): 22mg/l(static)
	Rainbow Trout LC <sub>50</sub> (96hr): 8.2mg/l(dynamic)
	Bluegill Sunfish LC <sub>50</sub> (96hr): 5.8mg/l(dynamic)
	Bluegill Sunfish LC <sub>50</sub> (96hr): 14mg/l(static)
	Daphnia Magna LC <sub>50</sub> (48hr): 37mg/l(with aeration)
	Daphnia Magna LC <sub>50</sub> (48hr): 24mg/l(without aeration)
	Algae S.Capricornutum EC <sub>50</sub> (72hr): 2.1mg/l
	Gammarus pseudolimaneus EC <sub>50</sub> (48hr): 42mg/l
	Fathead minnow LC <sub>50</sub> (96hr): 9.4mg/l
	Channel catfish LC <sub>50</sub> (96hr): 16mg/l
	Chinook Salmon LC <sub>50</sub> (96hr): 20mg/l
	Coho Salmon LC <sub>50</sub> (96hr): 22mg/l
<b>Other toxicity:</b>	Bobwhite quail 8-day LC <sub>50</sub> : >6300ppm
	Mallard duck 8-day LC <sub>50</sub> : >6300ppm

**13. Disposal Considerations**

Dispose of product concentrate, diluted product and empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO. Do not re-use container for any purpose.

Contact the Local Council Authority for advice on the disposal of pesticide waste, or ask an approved waste disposal contractor.

**14. Transport Information**

**UN classification:** not applicable

**Transportation requirement:** no special requirement, the containers should be kept closed and keep from extreme heat.

**Note:** This product is not a dangerous cargo.

**15. Regulatory Information**

**Hazard classification:** Harmful

**R phrases:** Harmful

**S phrases:** 36, wear suitable protective equipment  
2, keep out of the reach of children  
avoid breathing vapours.  
do not get in eyes, on skin or on clothing.

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## 16. Other Information

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**Date of First Issue:** 19<sup>th</sup> September 2003

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**Disclaimer:** The information contained in this MSDS is designed to give general health and safety guidance on the storage and transport of the substance/preparation to which it relates. Requirements arising from a Risk Assessment of the substance/preparation in a particular working environment should take precedence over any of the guidance contained in this MSDS where there is a difference in the information given. The information contained in this MSDS is accurate at the date of publication and will be updated as and when appropriate. Liability will not be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this MSDS.