

### 1. Chemical Product and Company Identification

Product Name : Glyphosate Technical

Formula :  $C_3H_8NO_5P$ 

Molecuar Weight : 169.1

Chemical Name : N-Phosphonomethyl glycine

Manufacturer : Sumitomo Chemical India Limited

Corporate Office: 13 / 14 Aradhana Industrial Development Corporation, Near Virwani Industrial Estate, Goregaon (East),

Mumbai - 400 063

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### 2. Composition/Information on Ingredients

Component CAS No. % W/W content

Glyphosate 1071-83-6 95 minimum

### 3. Hazard Identification

**Emergency Overview** 

**Appearance and odour**: White crystalline powder, mild to odourless

Warning Statements : Keep out of reach of children

**Potential Health Effects** 

**Likely Routs of Exposure**: Skin contact, Inhalation and Ingestion

**Eye Contact**: Likely to cause eye irritation

**Skin contact**: Irritation may occur on prolonged contact

**Ingestion**: Could be harmful if swallowed

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**Inhalation**: Could be harmful if inhaled.

**Environmental Hazards**: The product is an active ingredient used in herbicide formulations

and is therefore expected to be harmful to some weeds / plants.

#### 4. First aid measures and Antidote

Emergency and First Aid Procedure -

**If in Eyes** : Immediately flush with plenty of clean water for 15-20 minutes.

Remove contact lenses if present after 5 minutes of washing. Get

medical attention.

If on Skin : Wash with plenty of clean water and soap. Get medical attention if

irritation develops

If Inhaled : If experiencing any distress/discomfort, immediately remove the

affected person to fresh air and obtain medical advice if discomfort

does not disappear.

**If Swallowed** : Immediately offer drinking water to the person, if able to swallow.

Get medical attention.

Note to Physician : Treat symptomatically. May be treated as usual against effects of

acids or acid fumes.

**Antidote** : No specific antidote known.

### 5. Fire Fighting Measures

**Hazardous product of**: The essential breakdown products are carbon monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides.

Combustion dioxide, phosphorus pentoxide and nitrogen oxides.

**Extinguishing Media** : In case of Fire use Dry chemical powder, CO<sub>2</sub> type fire extinguisher

or Flood with water.

Unusual Fire and : The product does not pose any unusual fire hazard. It is advisable for firemen to avoid direct contact.

moment to avoid an out contact.

Fire Fighting Measures : Evacuate area and fight fire from a safe distance. Approach from

upwind to avoid hazardous vapours and decomposition products. Use self-contained breathing apparatus. Used equipments should be

thoroughly decontaminated.

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#### 6. Accidental Release Measure

# Personal Protection

: Observe all protection and safety precautions. Depending on the magnitude of the spill, use eye protection, gloves and shoes during cleaning of spill is recommended. For PPE see Section 8 below.

# Steps to be taken in case of a spill

It is recommended to have a predetermined plan / SOP for the handling of spills.

Stop the source of the spill immediately, if safe to do so. Contain the spill to prevent any further contamination of soil or water.

Keep all bystanders away. Wear full-length clothing and gloves. Shovel and collect the spilled material / contaminated absorbent and place in suitable containers. Thoroughly scrub the floor or other impervious surfaces with a strong industrial detergent and rinse with water.

**Spills in water** should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal through incineration.

### 7. Handling and Storage

### Precautions in Handling

In an industrial environment, such as while making formulation, filling or packing, it is recommended to avoid physical contact with the product and to have adequate ventilation.

Avoid spillage into the eyes, or contact with bare skin or clothing. Avoid inhaling dust. Wash hands, feet, face thoroughly after handling. Remove contaminated clothing immediately.

# Precautions in Storage

: The product is stable under normal conditions of warehouse storage. Keep container tightly closed.

Store in a cool, dry, well- ventilated place away from direct sunlight, foodstuffs, animal feed under lock & key.

### **Specific Use**

The product is meant / approved to be used for manufacture of herbicide formulations.

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### 8. Exposure Controls/Personal Protection

**Exposure Limit** Values

: Exposure limits have not been established for glyphosate or any other component of this product. However, exposure limit values defined by local regulations may exist and must be checked / observed.

Personal Protection

: When used in a closed / automated system, personal protection equipment may not be required. When closed system is not possible in case of maintenance, repair, sampling etc, systems must be made nonhazardous before opening.

Respiratory Protection

: The product is not likely to pose inhalation exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which may produce dust, workers should put on respiratory protection equipment with a universal filter.

**Protective Gloves**: Wear appropriate gloves.

**Eye Protection**: Wear goggles, face shield or safety glasses. It is recommended to have an

eye wash fountain available in the work area.

**Skin Protection**: Wear appropriate protective clothing to prevent direct skin contact

### 9. Physical and Chemical Properties

Physical State : Solid

**Appearance**: White crystalline powder

Odour : Mild to odourless

Specific Gravity (Relative

density)

1.67 +/- 0.02 at 20 °C

**pH value** : 1.86 to 1.90

Viscosity : Not applicable
Vapour Pressure : 1.2636 x 10<sup>-5</sup> Pa

Melting Point : >295 °C

Flash Point : Not flammable Flammable Limits : Not applicable

**Solubility in Water** :  $12.91 \pm 0.25$  g/l at 30 °C

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### 10. Stability and Reactivity

**Chemical Stability**: Product is stable under ambient conditions of storage.

**Materials to Avoid** : Does not react with common material.

**Hazardous** 

**Decomposition Product** 

Refer to section no. 5 above.

Hazardous

**Polymerisation** 

Not known

### 11. Toxicological Information

**Health Hazards** : Refer to section no. 3 above

**Acute Toxicity**: The product is practically non-toxic. However, it should be treated

with the usual care of handling chemicals.

Route(s) of Entry

Ingestion: LD<sub>50</sub>, oral, rat: > 2000 mg/kg body weight of female rat

Skin: LD<sub>50</sub>, dermal, rat: > 2000 mg/kg body weight

Inhalation : 4 hour  $LC_{50}$ , rat: > 5.04 mg/L air.

### 12. Ecological Information

Acute Oral Toxicity in

**Birds** 

: In bobwhite quail>3851 mg/kg

Acute Toxicity in Fish

(96 hrs LC<sub>50</sub>)

: Rainbow trout: 86 mg/L

**Acute Toxicity Honey** 

bees

: Oral & contact LC<sub>50</sub> 48 Hrs. > 100 µg/bee

#### 13. Disposal Considerations

Waste Treatment Methods

: Keep out of drains, sewers, ditches and waterways.

Left-over material should be disposed off in a landfill approved for pesticide disposal. Other possible methods of disposal are controlled

incineration with flue gas scrubbing.

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#### **Containers**

Empty containers may retain product residue. Observe all safeguards mentioned in label until container is cleaned and destroyed.

Triple rinse or pressure rinse the empty containers. Collect rinse water in a tank. Dispose through approved waste disposal service.

Do not re-use containers.

Disposal of waste and packaging materials must always be in accordance with all applicable local laws / regulations.

#### 14. **Transport Information**

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Not classified as dangerous goods under the applicable DOT, ICAO/IATA, IMO, TDG

IMDG classification

**Proper Shipping Name** : Environmentally hazardous Substance, Solid, n.o.s.

(Glyphosate)

Class / Division 9

Subsidiary hazard(s)

UN No. 3077

Packing group Ш

**IMDG Marine pollutant** No

#### 15. **Regulatory Information**

Contains Glyphosate (CAS No. 1071-83-6)

**Regulatory Status** The product is meant for the production of herbicide which should be used for the applications they are registered for,

in accordance with an officially approved label.

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#### 16. Other Information

This MSDS is intended for worker and transport safety. It summarizes our 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.

This material should be handled by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

This MSDS is not intended for product users who should refer to the product label for safety precautions applicable to them.

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product may vary and situations unforeseen by Sumitomo Chemical India Limited may exist. The user has to check the validity of the information under local circumstances.

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