Material Safety Data Sheet

Glyphosate 360 (RXSOL-94-9453-050)

1. Product and Company Identifaction

Porduct Name	Glyphosate 360
Part Number	RXSOL-94-9453-050

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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2. Composition / informationon ingredients

Product name	Cas No	EC No	Weight
GLYPHOSATE 360 HERBICID	1071-83-6	-	30-40%

3. Hazards Identification

Signal Word	Danger
Hazard Statements	H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects..
Precautionary statements	P273 Avoid release to the environment. P280 Wear eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/national regulations
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	No data available

4. First Aid Measures

General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance
If inhaled	If inhaled, remove to fresh air. Keep warm and rested. Seek medical attention if breathing problems develop
Eye Contact	In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.
Swallowed	If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention
Skin Contact	In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Flammability	No data available
Suitable extinguishing media	Water spray, fog or foam
Unsuitable extinguishing media	No data available
Special hazards arising from the substance or mixture	Hazardous combustion products include oxides of carbon, nitrogen and phosphorous. This product or spray solutions react with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixtures. Product is not flammable. Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers. Prevent run-off from fire fighting entering drains or water courses
Further information	No data available
Hazardous combustion products	Hazardous combustion products include oxides of carbon, nitrogen and phosphorous.
Advice for firefighters	When fighting a major fire wear self-contained breathing apparatus and protective equipment.
Protective Equipment	No data available
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wear approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.
Spillage	No data available
Personal Protection	No data available
Enviromental Precaution	In the event of a major spill, prevent spillage from entering drains or water courses
Methods and materials for containment and cleaning	Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. If spill is too large or absorbent material is not available create a dyke to stop the spill from spreading. Collect the spilled material and place into a suitable container for disposal. Wash area after spills
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Advice on protection against fire and explosion	No data available
Incompatible materials	No data available
Hygiene measures	No data available
Advice on safe handling	Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposur
Conditions for safe storage including any incompatibilities	No data available
Storage conditions	Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from prolonged periods in direct sunlight. Keep away from strong oxidising agents, nitrates, oxidising acids, chlorine bleaches, pool chlorine, strong alkalis and alkaline materials such as lime. Do not mix or store this product in unlined or galvanised steel (except stainless steel), as this product may react to form flammable and explosive hydrogen gas.
Storage class	No data available
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Advice on general occupational hygiene	No data available

8. Exposure controls and personal protection

Exposure controls	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Engineering Control	Ensure adequate ventilation of the working area, natural ventilation is usually adequate.
Eye/face protection	Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.
Body Protection	Protective clothing
Skin protection	Elbow-length PVC gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered. Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.
Respiratory protection	Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.
Other Protection Measure	No data available

9. Physical and chemical properties

Physical state	Liquid
Colour	Clear blue, viscous
Odour	Faint amine odour
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	>100 °C
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Viscosity	No data available
Density	No data available
Relative Density	1.2
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	Soluble in water
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable at ambient temperature and under normal conditions of use. May be unstable at temperatures below 5 °C.
Possibilityof hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	Extreme temperatures.

Incompatible materials	Strong oxidising agents, nitrates, oxidising acids, chlorine bleaches, pool chlorine, strong alkalis and alkaline materials such as lime.
Hazardous decomposition products	Oxides of carbon, nitrogen and phosphorous

11. Toxicological information

Acute toxicity	Oral LD50 >10,000 mg/kg (mice) LD50 >5,000 mg/kg (rat) LD50 >10,000 ml/kg (rabbit) Inhalation LC50/4 h 5-12 mg/l (rat))
Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	No data available
Carcinogenicity	Glyphosate is classified by IARC as Group 2A - Probably carcinogenic to humans.
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Additional Information	The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 30 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2021).

12. Ecological information

Persistence and degradability	Half-life in soil is typically 47 days. Loss from soil is primarily by microbial degradation.
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity	Glyphosate is a non-selective contact herbicide. Spray drift may cause damage. Not toxic to birds or bees. LD50 >2000 mg/kg (mallard duck) LD50 >100 ?g/beeToxic to aquatic life with long lasting effects.
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Products Biodegradation	No data available
Mobility in soil	Low mobility under normal conditions.
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher
Other adverse effects	Spray drift can cause damage, read label for more information.

13. Disposal considerations

Disposal Methods and Containers	Dispose according to applicable local and state government regulations
Special Precautions for Landfill or Incineration	Please consult your state Land Waste Management Authority for more information.
Waste treatment Method	No data available

14. Transport information

UN number	ADR/RID:3082	IMDG:3082	IATA:3082

UN proper shipping name	ADR/RID:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate (ISO))	IMDG:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate (ISO))	IATA:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate (ISO))
Transport hazard class(es)	ADR/RID:9	IMDG:9	IATA:9
Packaging group	ADR/RID:III	IMDG:III	IATA:III
Environmental hazards	ADR/RID:Yes	IMDG:Yes	IATA:Yes
Special precautions for user	No data available		
Further information	No data avaiable		

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	No data available
Chemical Safety Assessment	A Chemical Safety Assessment has been carried out for this substance.

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.