

## ROOTED WEED GUZZLER

### ELIMINATES WEEDS & GRASS FAST

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : ROOTED WEED GUZZLER ELIMINATES WEEDS & GRASS FAST  
Product code : NXWG2

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Outdoor Plant Care  
Powerful & Effective Weed Killer

#### 1.3. Details of the supplier of the safety data sheet

ZYAX CHEM PVT. LTD.,  
3rd Floor, Kamer Building,  
38 Cawasji Patel Street, Fort,  
Mumbai - 400001, India.  
Contact No: +91 8779240420  
info@zyax.in - www.zyax.in

#### 1.4. Emergency telephone number

Emergency number : +91 22 2757 3899

### SECTION 2: Hazards identification

#### 2.1. Classification

GHS-US classification

Skin corrosion/irritation Category 1C	H314
Serious eye damage/eye irritation Category 1	H318
Hazardous to the aquatic environment - Acute Hazard Category 3	H402

Full text of H statements: see section 16

#### 2.2. Label elements

GHS-US labeling  
Hazard pictograms (GHS-US)

Pictograms:





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Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H402 - Harmful to aquatic life
Precautionary statements (GHS-US)	: P260 - Do not breathe mist, vapors, spray P264 - Wash exposed skin thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves, eye protection P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower 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 or doctor/physician P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations If inhaled: Remove person to fresh air and keep comfortable for breathing

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Mixtures

Component	Cas no	% Composition	GHS-US classification
Water	7732-18-5	78-82	Not classified
Acetic Acid	64-19-7	18-22	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of hazard classes and H-statements: see section 1.6

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after eye contact	: Causes serious eye damage.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

**5.2. Special hazards arising from the substance or mixture**

Reactivity

**5.3. Advice for firefighters**

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1. For non-emergency personnel

- Protective equipment : Safety glasses. Gloves. Protective clothing.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray.
- Hygiene measures : Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

**7.2. Conditions for safe storage, including any incompatibilities**

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep container closed when not in use.
- Incompatible products : Strong oxidizers, metals, Strong bases.
- Incompatible materials : Sources of ignition. Direct sunlight.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Acetic Acid (64-19-7)		
ACGIH	ACGIH TWA (ppm)	10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
OSHA	OSHA PE (TWA) (ppmL )	10 ppm
IDLH	US IDLH (ppm)	50 ppm



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NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	37 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm

Water (7732-18-5)

Not applicable

### 8.2. Exposure controls

Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Gloves. Protective goggles. Protective clothing. High gas/vapor concentration: gas mask with filter type E.



Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidizing.

### 9.2. Other information

No additional information available

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Thermal decomposition generates: Corrosive vapors.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reacts violently with (some) bases: release of heat.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong oxidizers. metals. Strong bases.

**10.6. Hazardous decomposition products**

Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

**Acetic Acid (64-19-7)**

LD50 oral rat : 3310 mg/kg body weight (Rat; Other; Read-across)

ATE US (oral) : 3310.000 mg/kg body weight

**Water (7732-18-5)**

LD50 oral rat :  $\geq 90000$  mg/kg

ATE US (oral) : 90000.000 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met

Symptoms/injuries after eye contact : Causes serious eye damage.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

No additional information available



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### 12.2. Persistence and degradability

#### Acetic Acid, 20%

Persistence and degradability Not established.

#### Acetic Acid (64-19-7)

Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.

Biochemical oxygen demand (BOD) 0.6 - 0.74 g O<sub>2</sub>/g substance

Chemical oxygen demand (COD) 1.03 g O<sub>2</sub>/g substance

ThOD 1.07 g O<sub>2</sub>/g substance

#### Water (7732-18-5)

Persistence and degradability Not established.

### 12.3. Bioaccumulative potential

#### Acetic Acid, 20%

Bioaccumulative potential Not established.

#### Acetic Acid (64-19-7)

BCF fish 1 3.16 (BCF; Pisces)

Log Pow -0.17 (Experimental value; 25 °C)

Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

#### Water (7732-18-5)

Bioaccumulative potential Not established.

### 12.4. Mobility in soil

#### Acetic Acid (64-19-7)

Surface tension 0.028 N/m (20 °C)

Log Koc log Koc,0.06; QSAR

Ecology - soil May be harmful to plant growth, blooming and fruit formation.

### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2790 Acetic acid solution (with more than 10 percent and less than 50 percent acid, by mass), 8, III

UN-No.(DOT) : UN2790

Proper Shipping Name (DOT) : Acetic acid solution  
with more than 10 percent and less than 50 percent acid, by mass

Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : III - Minor Danger



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Hazard labels (DOT)

: 8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2).  
Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672)  
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel

Other information : No supplementary information available.

### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal regulations

Acetic Acid, 25% v/v (1+3)

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Acetic Acid (64-19-7)

RQ (Reportable quantity, section 304 of EPA's List of Lists) 5000 lb

#### 15.2. International regulations

CANADA

Acetic Acid, 25% v/v (1+3)

WHMIS Classification Class E - Corrosive Material

Acetic Acid (64-19-7)

Listed on the Canadian DSL (Domestic Substances List)



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WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material
Water (7732-18-5)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
EU-Regulations	
No additional information available	
National regulations	
Acetic Acid (64-19-7)	
Listed on the Canadian IDL (Ingredient Disclosure List)	

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: OTHER INFORMATION

Other information	: None.
Full text of H-phrases: see section 16:	
H226	: Flammable liquid and vapor
H314	: Causes severe skin burns and eye damage
H318	: Causes serious eye damage
H402	: Harmful to aquatic life
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken, and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: H H - Splash goggles, Gloves, Synthetic apron, Vapor respirator



#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text