Safety Data Sheet

In accordance with The Model Work Health and Safety Regulations, and the Globally Harmonized System of Classification and Labelling of Chemicals 3rd Revised Edition.

Date of Issue: 05/10/2021

Version: 1.0

#### SECTION 1: PRODUCT IDENTIFIER & IDENTIFIER FOR THE CHEMICAL

# Product Identifier

**Product Form: Mixture** 

Product Name: TRIO GLYPHOSATE 450 HERBICIDE

Product Code: 64397

**Intended Use of the Product** 

Water soluble herbicide for non-selective control of many annual and perennial weeds in conervation tillage situations.

### Name, Address, and Telephone of the Responsible Party

CTS Chemicals Pty Ltd Manning Buildings 135 High Street mall Fremantle, WA 6160

Australia

regulatory@ctschemical.com.au
Emergency Telephone Number

Emergency Number : +61 290372994 (CHEMTREC)

### **SECTION 2: HAZARDS IDENTIFICATION**

# Classification of the Substance or Mixture

Classification (GHS-AU)

 Skin Irrit. 3
 H316

 Carc. 1B
 H350

 STOT SE 1
 H370

 Aquatic Acute 2
 H401

 Aquatic Chronic 2
 H411

# **Label Elements**

GHS-AU Labelling

Hazard Pictograms (GHS-AU)





Signal Word (GHS-AU) : Danger

Hazard Statements (GHS-AU) : H316 - Causes mild skin irritation.

H350 - May cause cancer.

H370 - Causes damage to organs (kidney, bladder) (oral). H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-AU) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P281 - Use personal protective equipment as required.

P307+P311 - If exposed: Call a POISON CENTER or doctor/physician. P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see section 4 on this SDS).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and

international regulations.

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#### Non-GHS Hazards Not available

#### Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### **Mixture**

Name	Product Identifier	%*	GHS-AU Classification
Glycine, N-(phosphonomethyl)-, compound with 2-propanamine (1:1)	(CAS-No.) 38641-94-0	50-60	Carc. 1B, H350 STOT SE 1, H370 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Water	(CAS-No.) 7732-18-5	Balance	Not classified
Amines, tallow alkyl, ethoxylated	(CAS-No.) 61791-26-2	5-10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
C.I. Acid Blue 9, disodium salt	(CAS-No.) 3844-45-9	0-1	Acute Tox. 5 (Oral), H303

<sup>\*</sup>Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%)

Full text of H-statements: see section 16

## **SECTION 4: FIRST AID MEASURES**

#### **Description of 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).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. If exposed or concerned: Get medical advice/attention. Drench affected area with water for at least 15 minutes.

**Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Personal Protection in First Aid and Measures: Use appropriate personal protective equipment (PPE).

## Most Important Symptoms and Effects Both Acute and Delayed

General: May cause mild skin irritation. May cause cancer. Causes damage to organs (bladder, kidneys) (oral).

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Causes mild skin irritation.

**Eye Contact:** May cause eye irritation. May cause slight irritation to eyes.

**Ingestion:** May cause bladder and kidney damage. Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

#### **Advice for Firefighters**

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

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**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>). Nitrous oxide. Nitrous fumes. Phosphorous oxide.

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

HAZCHEM Emergency Action Code (Australia): •3Z

Reference to Other Sections

Refer to Section 9 for Flammability Properties

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

#### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

## Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

### **SECTION 7: HANDLING AND STORAGE**

# **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. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapour or spray. Avoid contact with eyes, skin and clothing. Use appropriate personal protective equipment (PPE).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

#### Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight,

extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids, strong bases, strong oxidizers and reducing agents.

#### Specific End Use(s)

Water soluble herbicide for non-selective control of many annual and perennial weeds in conervation tillage situations.

#### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

## **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), and Australia OELs.

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

## **Exposure Controls**

**Appropriate Engineering Controls:** Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

#### Personal Protective Equipment

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

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Skin and Body Protection: Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## Information on Basic Physical and Chemical Properties

**Physical State** Liquid **Appearance** Not available Odour Not available Odour threshold Not available Ha Not available **Evaporation Rate** Not available **Melting Point** Not available Freezing Point Not available **Boiling Point** Not available Flash Point Not available **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not applicable Lower Flammable Limit Not available

Lower Flammable Limit: Not availableUpper Flammable Limit: Not availableVapour pressure: Not availableRelative vapour density at 20 °C: Not availableRelative Density: Not available

Specific Gravity : 1.12

Solubility: Not availablePartition Coefficient n-Octanol/Water: Not availableViscosity: Not available

#### **SECTION 10: STABILITY AND REACTIVIT Y**

**Reactivity**: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

**Incompatible Materials**: Strong acids, strong bases, strong oxidizers and reducing agents. **Hazardous Decomposition Products**: Not expected to decompose under ambient conditions.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified Acute Toxicity (Dermal): Not classified Acute Toxicity (Inhalation): Not classified LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes mild skin irritation.
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified

**Germ Cell Mutagenicity:** Not classified **Carcinogenicity:** May cause cancer.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

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Specific Target Organ Toxicity (Single Exposure): Causes damage to organs (kidney, bladder) (oral).

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Causes mild skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation. May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: May cause bladder and kidney damage. Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

C.I. Acid Blue 9, disodium salt (3844-45-9)		
LD50 Oral Rat	> 2000 mg/kg	
ATE AU (oral)	2,500.00 mg/kg bodyweight	
Amines, tallow alkyl, ethoxylated (61791-26-2)		
LD50 Oral Rat	500 mg/kg	
Glycine, N-(phosphonomethyl)-, compound with 2-propanamine (1:1) (38641-94-0)		
LD50 Oral Rat	10537 mg/kg	
LD50 Dermal Rabbit	> 5000 mg/kg	
LC50 Inhalation Rat	> 5 mg/l/4h	
C.I. Acid Blue 9, disodium salt (3844-45-9)		
IARC Group	3	
Glycine, N-(phosphonomethyl)-, compound with 2-propanamine (1:1) (38641-94-0)		
IARC Group	2A	

## **SECTION 12: ECOLOGICAL INFORMATION**

#### **Toxicity**

Hazardous To The Aquatic Environment, Short-Term (Acute): Toxic to aquatic life.

Hazardous To The Aquatic Environment, Long-Term (Chronic): Toxic to aquatic life with long lasting effects.

**Ecology - General:** Toxic to aquatic life with long lasting effects.

Glycine, N-(phosphonomethyl)-, compound with 2-propanamine (1:1) (38641-94-0)	
LC50 Fish 1	2.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	2.6 – 3.4 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	8.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

## Persistence and Degradability

TRIO GLYPHOSATE 450 HERBICIDE	
Persistence and Degradability	May cause long-term adverse effects in the environment.

## **Bioaccumulative Potential**

TRIO GLYPHOSATE 450 HERBICIDE		
	Bioaccumulative Potential	Not established.

## Mobility in Soil Not available

#### **Other Adverse Effects**

Other Information: Avoid release to the environment.

Ozone: Not classified

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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## **SECTION 14: TRANSPORT INFORMATION**

#### Not Regulated / Non-Hazardous

Shipment by ground via road or rail within Australia is not regulated in IBCs or packagings not exceeding 500 kg(L) per Australian Special Provision AU01.

ADG

**UN** number N/A Proper shipping name N/A Transport hazard class(es) N/A Packing group N/A **Environmental hazard** N/A **Special Provisions** N/A Description N/A Limited quantity (LQ) N/A Hazchem code N/A

## SECTION 15: REGULATORY INFORMATION

## National Regulations

#### C.I. Acid Blue 9, disodium salt (3844-45-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemicals Inventory)

#### Amines, tallow alkyl, ethoxylated (61791-26-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed on the EU NLP (No Longer Polymers) inventory

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemicals Inventory)

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

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Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemicals Inventory)

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## Glycine, N-(phosphonomethyl)-, compound with 2-propanamine (1:1) (38641-94-0)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemicals Inventory)

#### **International Agreements**

No additional Information available

#### **Australia National Regulations**

Water (7732-18-5)	
High Volume Industrial Chemicals List	Present
Amines, tallow alkyl, ethoxylated (61791-26-2)	
Relevant Poisons Schedule number	Schedule 5

## SECTION 16: ADDITIONAL INFORMATION

**Date of Preparation or Latest** 

Revision

: 05/10/2021

**Data Sources** : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that

include substance specific data and classifications according to GHS or their subsequent

adoption of GHS.

Other Information : In accordance with The Model Work Health and Safety Regulations, and the Globally

Harmonized System of Classification and Labelling of Chemicals 3rd Revised Edition.

#### **GHS Full Text Phrases:**

di Toxe i iliacoci	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. 5 (Oral)	Acute toxicity (oral), Category 5
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Acute 2	Hazardous to the aquatic environment — Acute Hazard, Category 2
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Irrit. 3	Skin corrosion/irritation, Category 3
STOT SE 1	Specific target organ toxicity — Single exposure, Category 1
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H315	Causes skin irritation.
H316	Causes mild skin irritation
H319	Causes serious eye irritation.
H350	May cause cancer.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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#### Indication of Changes No additional information available

## **Abbreviations and Acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists

ADG – Australian Dangerous Goods (Code) AIHA – American Industrial Hygiene Association

ATE - Acute Toxicity Estimate

AU - Australia

BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD - Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
COD - Chemical Oxygen Demand
EC50 - Median Effective Concentration

ErC50 - EC50 in Terms of Reduction Growth Rate

EU - European Union

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

IARC - International Agency for Research on Cancer

LC50 - Median Lethal Concentration LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level LOEC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient

Log Kow - Octanol/water Partition Coefficient

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case

octanol and water

NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration NTP – National Toxicology Program OEL - Occupational Exposure Limits

pH – Potential Hydrogen

SADT - Self Accelerating Decomposition Temperature

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit ThOD – Theoretical Oxygen Demand TLM - Median Tolerance Limit TLV - Threshold Limit Value TPQ - Threshold Planning Quantity TWA - Time Weighted Average

UN - United Nations

UN RTDG - United Nations Recommendations on the Transport of Dangerous

Goods

VOC - Volatile Organic Compounds

WEEL - Workplace Environmental Exposure Levels

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Australia GHS SDS

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