

SAFETY DATA SHEET

Supranex 900 WG

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

Product identifier

Supranex 900 WG

Formulation Type WG
Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against

Professional use spec Agriculture

Recommended Use A water dispersible granule herbicide for the control of annual broadleaf weeds as well as goosegrass in maize and grain sorghum

Use of the substance/ Mixture Herbicide

Uses advised against Use only as directed.

Details of the supplier of the safety data sheet

Supplier

ADAMA SOUTH AFRICA (PTY) LTD
Ground Floor, Simeka House
The Vineyards Office Estate
99 Jip de Jager Drive
Bellville 7530

Emergency telephone number

Emergency Telephone +27 82 446 8946 (Griffon Poison Centre)
+27 86 155 5777 (Tygerberg Poison Information Centre)
+27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address infocpt@adama.com

Classification of the substance or mixture

SECTION 2: HAZARDS IDENTIFICATION

The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories	Hazard statement
Skin Sensitization (Category 1)	H317
Specific target organ toxicity – Repeated Exposure STOT RE (Category 2)	H373
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None known.

The most important adverse human health effects: May cause damage to organs through prolonged or repeated exposure.
May cause an allergic skin reaction.

Label Elements

Hazard pictograms



Signal word

Warning

Hazard Statements

H317	May cause an allergic skin reaction
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102	Keep out of reach of children
P103	Read carefully and follow all instructions.
P203	Obtain, read, and follow all safety instructions before use.
P260	Do not breathe dust/mist
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: wash with plenty of water
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P317	If skin irritation occurs: Get medical help.
P319	Get medical help if you feel unwell.
P391	Collect spillage
P501	Dispose of contents/container in accordance with local/regional/ national regulations

Other Hazards

The product contains Atrazine, which has a high potential for groundwater contamination.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Atrazine	43 - 47	1912-24-9	217-617-8	Skin Sensitisation (Category 1) H317 STOT RE (Category 2) H373 Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410	
Terbutylazine	43 - 47	5915-41-3	227-637-9	Acute Toxicity (Category 4) H302 STOT RE (Category 2) H373 Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410	M=10 M=10
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts	2 - 3	1258274-08-6	800-660-7	Skin Irritation (Category 2) H315 Eye Damage (Category 1) H318	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Description of First aid measures:

Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Skin Contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Rinse affected area with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Ingestion	Rinse mouth Do NOT induce vomiting. Obtain medical attention immediately. Call a doctor or Poison Centre if you feel unwell.

Most important symptoms and effects, both acute and delayed.

Symptoms/effects	Causes damage to organs.
Symptoms/effects after inhalation	May cause an allergic skin reaction.
Symptoms/ effects after ingestion	Swallowing a small quantity of this material may result in serious health hazard

Indication of any immediate medical attention and special treatment needed.

Note to Physician	No signs and symptoms of Triazine poisoning are known or expected in humans. No specific antidote is available. Treat symptomatically and supportively when required. When large amounts have been ingested, consider gastric lavage, or administer activated charcoal.
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SECTION 5: FIRE-FIGHTING MEASURES

Extinguisher media:

Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media Do not use a heavy stream of water.

Special hazards arising from the mixture:

Fire Hazard The material is non-flammable and non-combustible.

Hazardous decomposition products
in case of fire Refer to Section 10: Stability and Reactivity.

Advice for fire-fighters:

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment.

Protection during firefighting Do not enter the area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

For emergency responders

Protective equipment Equip cleanup crew with recommended personal protective equipment in section 8.
In the event of fire wear self-contained breathing apparatus.

In the event of fire / explosion do not breath in fumes.

Emergency procedures Ventilate area.

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental precautions

Stop leak if without risk. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Avoid release to the environment.

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.

Reference to other sections:

See section 1: Emergency contact details.

See section 7 : Handling and storage.

See section 8 : Exposure controls and personal protection.

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. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash hands, forearms, and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities.

Storage conditions

Keep only in the original container in a cool, well-ventilated place away from
Keep container closed when not in use.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL

National occupational exposure limits

Atrazine (1912-24-9) National Occupational Exposure Limits

Country	Exposure Limit	Country	Exposure Limit
France	TWA: 5 mg/m ³	Switzerland	TWA: 2 mg/m ³
Spain	TWA: 5 mg/m ³	Poland	TWA: 5 mg/m ³
Germany	TWA: 2 mg/m ³ Ceiling / Peak: 16 mg/m ³	Norway	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Portugal	TWA: 5 mg/m ³	Ireland	TWA: 10 mg/m ³
Finland	TWA: 10 mg/m ³ STEL: 20 mg/m ³	Austria	TWA: 2 mg/m ³
Denmark	TWA: 2 mg/m ³		

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures:

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the toilet at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation.

Eye/ face protection

Use splash proof, tight sealing safety glasses.

Hand protection	Use suitable chemical resistant gloves (
Body protection	Appropriate impervious clothing is required to prevent skin contact with the product.
Respiratory protection	Use only with adequate ventilation.
Environmental exposure controls:	Prevent product from entering into sewers and water courses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property	Values
Appearance	Solid
Colour	White
Odour	Characteristic
Odour threshold	No data available
pH	Not applicable
Melting point / freezing point (°C)	No data available
Boiling point (°C) (Bromacil)	No data available
Flash point (°C)	No data available
Evaporation rate	Not applicable
Flammability	Not Flammable
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	No data available
Water solubility (g/l) at 20°C	No data available
Solubility	Fully miscible in water.
Partition coefficient: n-octanol/water partition coefficient	Atrazine: 2.5 @ 25°C Terbutylazine: 3.4 20°C - 25°C
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Kinematic viscosity mm ² /s 40 °C	No data available
Explosive properties	Not explosive.
Oxidising properties	No data available
Explosive limits	No data available
Bulk Density g/ml	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No data available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Not established.
Conditions to avoid.	Direct sunlight. Extremely high or low temperatures.
Incompatible Materials	Strong acids. Strong bases.
Hazardous Decomposition Products	None under normal use conditions.

SECTION 11: TOXICOLOGY INFORMATION

Toxicokinetics, metabolism and distribution: No data available

Information on toxicological effects:

Assessment of acute toxicity:

The product Supranex 900WG has not been tested. The data reported is for the main ingredients in the mixture.

Terbutylazine CAS No. 5915-41-3	
Acute toxicity:	
Acute Oral LD50 (rat)	1590-2000 mg/kg
Acute Dermal LD50 (rabbit):	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>5.3 mg/l
Skin irritation/ corrosion	Not a skin irritant
Eye damage / irritation	Not an eye irritant
Respiratory or skin sensitization	Not a skin sensitiser
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT	No data available
Specific Target Organ Toxicity STOT repeated exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Atrazine CAS No. 1912-24-9	
Acute toxicity:	
Acute Oral LD50 (rat)	1960-2220 mg/kg
Acute Dermal LD50 (rabbit):	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>5 mg/l

Skin irritation/ corrosion	Based on available data the classification criteria are not met
Eye damage / irritation	Based on available data the classification criteria are not met
Respiratory or skin sensitization	Based on available data the classification criteria are not met.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Based on available data the classification criteria are not met.
Specific Target Organ Toxicity STOT single exposure	Based on available data the classification criteria are not met.
Specific Target Organ Toxicity STOT repeated exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Ecology - water	Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, acute	Very toxic to aquatic life
Hazardous to the aquatic environment, chronic	Very toxic to aquatic life with long lasting effects

Terbutylazine CAS No. 5915-41-3	
Toxicity	
Birds Acute oral LD50 Dietary LC50 8 days	>1000 mg/kg Bobwhite quail and Mallard ducks >5620 mg/kg diet Bobwhite quail and Mallard ducks
Aquatic Toxicity Fish LC ₅₀ (96 hr) Aquatic Toxicity Daphnia EC ₅₀ (48 hr) Toxicity to algae – static test E _r C ₅₀ (96h) Toxicity to bees LD ₅₀ (oral and contact) Toxicity to worms LC50 (14d)	2.2 mg/l Rainbow trout; 52 mg/l, Bluegill sunfish >69.3 mg/l 0.016 mg/l for green algae (<i>Scenedesmus subspicatus</i>) >193 µg/bee. >283-1000 mg/kg soil (earthworms)
Persistence and degradability	In aerobic soils, dissipation is mainly due to microbial activity with the formation of metabolites by de-ethylation and hydroxylation, with eventual ring cleavage, and the formation of non-extractable residues (8-27% after 98d). Median DT50 (field) 17.4 (6.5-149, 9 sites). Adsorption on soils is medium K _{Foc} 224 (162-333, 12 soils), median K _F 3.0 (0.3-25.2, 12 soils) Terbutylazine is only slightly mobile. In water sediment systems, terbutylazine dissipates with a DT50 of 33-73 d in the whole system.
Bioaccumulation potential	No data available
Mobility in Soil	No data available
Result of PBT and vPvB assessment	No data available
Other adverse effects	No data available

Atrazine CAS No. 1912-24-9	
Toxicity	
Bird Toxicity Acute oral LD50 Dietary LC50 8 days	>2000 mg/kg Mallard ducks >5000 mg/kg diet Bobwhite quail and Ring-necked pheasants
Aquatic Toxicity Rainbow Trout, 96 hour, LC 50 Bluegill, 96 hour, EC50 Daphnia EC ₅₀ (48 hr) Toxicity to green algae – static test EC50 (72h)	4.5 mg/l 54.5 mg/l 6.9 mg/l 43 µg/L
Bee Toxicity Bees, acute, LD50	>25µg/ bee
Persistence and degradability	Atrazine is highly persistent in soil. Chemical hydrolysis, followed by degradation by soil microorganisms, accounts for most of the breakdown of atrazine. Hydrolysis is rapid in acidic or basic environments but is slower at neutral pHs. Addition of organic material increases the rate of hydrolysis. Atrazine can persist for longer than 1 year under dry or cold conditions. Atrazine is moderately to highly mobile in soils with low clay or organic matter content. Because it does not adsorb strongly to soil particles and has a lengthy half-life (60 to >100 days), it has a high potential for groundwater contamination despite its moderate solubility in water.
Bioaccumulation potential Partition Coefficient (n-octanol/water)	Low bioaccumulation potential Log P: 2.59 at 20°C
Mobility in Soil	No data available
Result of PBT and vPvB assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB
Other adverse effects	No data available





SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology -waste materials	Avoid release to the environment.

SECTION 14: TRANSPORTATION INFORMATION

ADR	IMDG	IATA	RID
UN number			
UN 3077	UN 3077	UN 3077	UN 3077
UN proper shipping name			

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine; Terbutylazine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine; Terbutylazine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine; Terbutylazine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine; Terbutylazine)
Transport document description			
UN 30773082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLIDLIIQUID, N.O.S., 9, III, (-)	UN 330773082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLIDLIIQUID, N.O.S., 9, III, MARINEPOLLUTANT	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, UN 3082 Environmentally hazardous substance, liquid, n.o.s.,9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Transport hazard class(es)			
9	9	9	9
			
Packing Group			
III	III	III	III
Environmental hazards			
Environmental Hazard: Yes Marine Pollutant: Yes	Environmental Hazard: Yes Marine Pollutant: Yes	Environmental Hazard: Yes Marine Pollutant: Yes	Environmental Hazard: Yes Marine Pollutant: Yes
No supplementary information available			

Note:UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7;ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation for the mixture:

Regulatory Information:

Relevant regulatory information regarding authorization, Safety Data Sheets, Occupational Exposure Limits, Hazardous Substances, Dangerous Goods Transport and Waste.

South Africa: Occupational Health and Safety Act 1993. Regulations for Hazardous Chemical Agents - 2021. Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Hazardous Substances Act, 1973 (Act No.15 of 1973). Regulations for Hazardous Chemical Agents – 2021. SANS11014:2010. Safety Data Sheet for Chemical Products – Content and Order of Sections. SANS10206: 2020. The Handling, Storage and Disposal of Pesticides. National Road Traffic Act, 1996 (Act No. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: waste Act 59 of 2008.

National Regulations

No additional information available

Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Data sources : Pesticide Manual, ECHA, Supplier SDS's
Other information : None.

Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]
GHS aligned – all sections.

Full text of H-Statements referred to under sections 2 and 3

H315	Causes skin irritation	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
Classification and procedure used to derive the classification for the mixture according to the UN GHS Purple Book (Rev.9, 2021):		
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

List of Acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
Number	CAS
EC Number	Chemical Abstracts Service number.
EINECS	EINECS and ELINCS Number
ELINCS	European Inventory of Existing Commercial Substances
IATA	European List of notified Chemical Substances
ICAO-TI	International Air Transport Association
IMDG	Technical Instructions for the Safe Transport of Dangerous Goods by Air
LC50	International Maritime Dangerous Goods
LD50	Lethal Concentration to 50 % of a test population
OECD -	Lethal Dose to 50% of a test population (Median Lethal Dose)
PBT	Organization for Economic Co-operation and Development
RID	Persistent, Bioaccumulative and Toxic substance
STOT	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Specific Target Organ Toxicity
	Very Persistent and Very Bioaccumulative



ADAMA

Listen - Learn - Deliver

Disclaimer

The information provided in this Material 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.

End of Safety Data Sheet