

SAFETY DATA SHEET

Atranex 90 WG

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

Product identifier

Atranex 90 WG

Synonyms	Atrazine 900 WG
Pure substance/mixture	Mixture
Formula	WG

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

Recommended use	Herbicide
Uses advised against	Do not use for any other purpose than described on the label *

Details of the supplier of the substance or mixture and of the safety data sheet

Supplier's name and address	ADAMA SOUTH AFRICA (PTY) LTD Ground Floor, Simeka House The Vineyards Office Estate 99 Jip De Jager Drive Bellville 7530, South Africa + 27 21 982 1460
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For further information please contact

Email address	SDS@ADAMA.COM
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Emergency telephone numbers

+ 27 82 446 8946 (Griffon Poison Information Centre)
+ 27 86 155 5777 (Tygerberg Poison Information Centre)
+27(0)86 100 0366; (SPILL TECH®)
+27 (0)83 253 6618

Section 2: HAZARDS IDENTIFICATION

<u>Classification of the mixture</u> *	Skin sensitisation	Category 1 (H317)
	Specific target organ toxicity, repeated exposure	Category 2 (H373)
	Acute aquatic hazard	Category 1 (H400)
	Chronic aquatic hazard	Category 1 (H410)

Signal word	WARNING
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Hazard statement	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
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Precautionary statements *

P102 – Keep out of reach of children.
 P270 – Do not eat, drink, or smoke when using this product.
 P280 – Wear protective gloves/face protection/protective clothing.
 P260 – Do not breathe dust/mist/spray.
 P264 – Wash hands and face after handling
 P302+P352 – IF ON SKIN: Wash with plenty of water
 P333+P317 – If skin irritation or rash occurs, get medical help.
 P362+P364 – Take off contaminated clothing and wash it before reuse.
 P272 – Contaminated work clothing should not be allowed out of the workplace.
 P319 – Get medical help if you feel unwell.
 P273 – Avoid release to the environment apart from the intended use.
 P391 – Collect spillage.
 P501 – Dispose of contents and/or container to an approved waste disposal plant.

Other hazards No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Weight%	CAS Number	EC Number	GHS classification	M-Factor
Atrazine	88 – 92	1912-24-9	217-617-8	Skin sensitisation 1 (H317) STOT RE 2 (H373) Aquatic acute 1 (H400) Aquatic chronic 1 (H410)	10
Other ingredients *	8 – 12	–	–	Not classified	

Section 4: FIRST AID MEASURES

General advice In case of an accident or unwellness, seek medical advice immediately. If possible, show the label (directions for use) or this SDS.

Inhalation Most important acute symptoms/effects: irritation of the airway, coughing may occur.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If breathing is irregular or stop, administer artificial respiration.
 Get medical help if the person feels unwell.

Skin contact Most important acute symptoms/effects: skin irritation and allergic skin reactions.
 IF ON SKIN: Wash with plenty of soapy water.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs, get medical help.

Eye contact Most important acute symptoms/effects: eye irritation, redness may occur.
 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists, get medical help.

Ingestion Most important acute symptoms/effects: no symptoms or effects are known.
 IF SWALLOWED: Rinse mouth well with clean water and drink plenty of it.
 Call a poison centre and/or get medical help if you feel unwell.

Most important delayed symptoms/effects after exposure No information is available for acute exposure. Prolonged or repeated exposure may cause damage to organs such as the heart.

Indication of immediate medical attention If skin irritation or rash occurs, or if eye irritation persists, or if a burning sensation in the upper airways persists, get medical help. Treat symptomatically. Pre-existing conditions may be aggravated, such as eye, skin, or respiratory disorders.

Protection of first responders Avoid undue contact with the mixture.
Wear gloves and a mask to prevent transmission of pathogens.

Section 5: FIREFIGHTING MEASURES

Appropriate/suitable extinguishing media Water spray, foam, carbon dioxide (CO₂) or dry powder may be used but select extinguishing media that is appropriate for local circumstances and the surroundings.

Inappropriate extinguishing media * Water jet. Do not scatter spilled material with high pressure water streams.

Nature of hazardous combustion products * Suffocating, irritating and toxic fumes of carbon monoxide (CO), oxides of nitrogen, hydrogen cyanide (HCN), hydrochloric acid, and other unknown hazardous substances may form.

Other hazards arising from the mixture None known. There is no direct explosion hazard, no sensitivity to mechanical impact or to static discharge for this mixture.

Special protective equipment Avoid breathing vapours and combustion by-products. Use self-contained breathing apparatus and complete protective clothing. Do not attempt to act without suitable protective equipment.

Precautions and/or protective actions Move containers from the fire area if it can be done without risk.
Avoid contact with oxidising agents.
Use water spray to cool down closed containers, but only after considering other material in the vicinity that may pose a hazard.
Stay upwind and keep out of low areas.
Take precautions to prevent extinguishing media contaminating surface water or ground water.

Section 6: ACCIDENTAL RELEASE MEASURES

Distinguish between large or small spills or releases.

Personal precautions Avoid skin and eye contact with spilled material. Avoid creation and inhalation of dust. Wash hands thoroughly after handling. Do not touch eyes.
Do not eat, drink, or smoke during clean-up operations.

Protective equipment Wear protective gloves/protective clothing/face and eye protection. In case of inadequate ventilation, wear respiratory protection.

Emergency actions and procedures No special emergency actions or procedures are required.

Environmental precautions * The product is for terrestrial use only and not intended for aquatic applications. Do not apply directly to areas where surface water is present, or to aquatic habitats, estuaries, or marine habitats.
Do not mix and load within 15 m of boreholes, streams, rivers or dams. Do not apply within 60 m of dams. Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment. Do not apply where the roots of desirable plants can absorb the active ingredient.
Prevent back-siphoning to boreholes or dams when applied through an irrigation system.

Avoid contamination of food, feedstuffs, drinking water and eating utensils.
Do not contaminate surface or ground water when disposing of rinsate or water used to wash equipment.
Report a large release to the appropriate authorities.

Methods and materials for containment/cleaning up

Move intact containers from the spill area. The product is a water dispersible solid. The spill area may be slippery when wet.

Small spills: Sweep up without creating dust clouds and place in an appropriate waste disposal container. Rinse the spill area with soapy water and mop up.

Large spills: Ensure adequate ventilation. If possible, recover the product. Alternatively contain and collect the spillage by sweeping up and transfer to suitable containers for use or disposal. Then flush the area with water if appropriate. Prevent release to the environment or entry into sewers, water courses, basements, or confined areas. Dispose of via a licensed waste disposal contractor.

Section 7: HANDLING AND STORAGE

Precautions for safe handling Wear protective gloves/protective clothing/face and eye protection, such as nitrile rubber gloves, face shield, a dust mask and long-sleeved clothing.
Avoid contact of the product and its dilutions with eyes, skin, and clothing.
Do not eat, drink, or smoke when using this product.
Do not breath dust, mist, or spray.
Wash hands and face thoroughly after handling. Do not touch eyes.
Wash contaminated clothing before reuse.

Conditions for safe storage Store in the original container in a cool, dry and well-ventilated area.
Keep containers closed and out of direct sunlight.
Store separately from any food, feed, or drinks.
Keep out of reach of children and uninformed persons.

Any incompatibilities Prevent exposure to moisture during storage. Avoid excessive heat.
Avoid contact with strong bases, acids, or oxidising agents.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.



Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits The permissible exposure limit (PEL) set as a time-weighted average (TWA) for atrazine is generally 5 mg/m³ (in some EU countries it is 2 mg/m³). The short-term exposure limit (STEL) is generally 10 mg/m³ for atrazine.

Biological limit values The acceptable daily intake (ADI) of atrazine is 0 to 0.02 mg/kg bodyweight per day.

Engineering controls Ensure adequate ventilation, especially in confined areas. Safety showers and eye wash stations should be provided.

Respiratory protection Use only with adequate ventilation. If dust clouds or mist is present, a dust/mist filtering respirator should be used.

Eye protection Wear a face shield or safety glasses. When dust clouds are present, protect the eyes with tight sealing safety goggles (EN 166).

Hand protection * Wear suitable chemical resistant gloves (EN 374) made from nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm) or butyl rubber (0.7 mm).

Body protection	Wear a water repellent woven overall (65% polyester and 35% cotton) with long sleeves. Wear protective boots (EB13832).
General hygiene	Do not eat, drink, or smoke when using this product. Wash hands and face after handling. Wash clothes before reuse.
Environmental protection	Do not contaminate surface or ground water when disposing of rinsate or water used to wash equipment.



Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Method	Remark
Physical state	solid		
Clarity	not applicable		not a liquid
Colour	light brown		
Odour	faint		
Odour threshold	not determined		
Melting point/freezing point	not determined		
Boiling point (or initial point and range)	not applicable		not a liquid
Flammability (gases, liquids, solids)			
Lower and upper explosion limits			
Lower and upper flammability limits			
Flash point	not applicable		non-volatile
Autoignition temperature			
Decomposition temperature			
pH, neat	not applicable		not a liquid
pH, aqueous dilution *	8.5		1% dilution
Dissociation in water, pKa			
Kinematic viscosity (of liquids) in mm ² /s	not applicable		not a liquid
Solubility in water	disperses in water		
Solubility in a specified non-polar solvent	not miscible with non-polar solvents		
Partition coefficient (n-octanol/water), Log Pow	2.61		
Vapour pressure	not applicable		non-volatile
Density and/or relative density	not applicable		not a liquid
Bulk density, g/ml	0.48		
Relative vapour density	not applicable		non-volatile
Particle characteristics	granular, no further data available		
Evaporation rate	not applicable		not volatile
Surface tension	not applicable		not a liquid

Note: blank cells indicate that no information is available or was provided.

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable when handled and stored under normal conditions.
Reactivity	No data available.
Safety significance of any change in physical appearance	The mixture is not expected to change in physical appearance over time when kept dry. Moisture could cause caking of the granules.
Possibility of hazardous reactions	No known hazardous reactions and no polymerisation under normal handling conditions.
Conditions to avoid	Keep out of direct sunlight, away from excessive heat and flames. Avoid exposure to moisture. Pressure, shock, static discharge, and vibrations have no known effect.
Incompatible materials	Strong bases, acids, oxidising agents and moisture.
Hazardous decomposition products	The mixture is not expected to produce hazardous decomposition products when used and stored properly.

Section 11: TOXICOLOGICAL INFORMATION

Toxicological effect	Atranex 90 WG (mixture)	Atrazine (active ingredient)
Acute oral toxicity		LD ₅₀ (rat) > 2 000 mg/kg
Acute dermal toxicity		LD ₅₀ (rat) > 2 000 mg/kg
Acute inhalation toxicity		LC ₅₀ (4 hours) > 5.8 mg/l
Skin corrosion/irritation		not a skin irritant
Serious eye damage/ eye irritation		not an eye irritant
Respiratory or skin sensitisation		skin sensitiser (guinea pig)
Germ cell mutagenicity		not genotoxic
Carcinogenicity		not likely to pose a carcinogenic risk to humans
Reproductive toxicity		observed effects in rabbits have not yet been confirmed as relevant to humans
STOT, single exposure		
STOT, repeated exposure		may cause damage to organs such as the heart
Aspiration hazard		not classified

Note: blank cells indicate that no information is available or was provided

Section 12: ECOLOGICAL INFORMATION

Ecotoxicological effect	AtraneX 90 WG (mixture)	Atrazine (active ingredient)
Acute aquatic toxicity: fish		rainbow trout 96-hour LC ₅₀ 11 mg/l
crustacea		<i>Daphnia magna</i> 48-hour EC ₅₀ 78 mg/l
algae		<i>Scenedesmus subspicatus</i> 72-hour EC ₅₀ 0.043 mg/l
Chronic aquatic toxicity: fish		rainbow trout 21-day NOEC 0.06 mg/l
crustacea		<i>Daphnia magna</i> 21-day NOEC 0.012 mg/l
algae		<i>Selenastrum capricornutum</i> 5-day EC ₅₀ 0.055 mg/l
Acute terrestrial toxicity: birds		mallard duck oral LD ₅₀ > 2 000 mg/kg bobwhite quail oral LD ₅₀ 940 mg/kg
honeybees		48-hour LD ₅₀ > 100 µg/bee
earthworm		LD ₅₀ 78 mg/kg
soil		field DT ₅₀ 16 to 117 days
water		abiotic DT ₅₀ 14 to 105 days
biodegradation		
Bioaccumulative potential: Partition coefficient		Log Pow = 2.6
Bioconcentration factor, BCF		not expected to bioconcentrate
Mobility in soil		Koc is 39 to 173 l/kg
Other adverse effects		
PBT and vBvP assessment	The components of this mixture do not meet the criteria for classification <i>Note: blank cells indicate that no information is available or was provided</i>	

Section 13: DISPOSAL CONSIDERATIONS

Dispose of waste residues responsibly as hazardous chemical waste through a licensed waste removal company.

Waste from unused product or residues must be classified, labelled, handled, and treated in accordance with the regional, national, and local laws and regulations.

During incineration, hazardous gases (oxides of nitrogen and carbon, hydrochloric acid, hydrogen cyanide, etcetera) may be produced.

Avoid release of waste into the environment. The active ingredient is persistent in soil and may leach to groundwater.

Dispose of the container by rinsing it properly. Do not re-use. Destroy it mechanically and dispose of to an approved recycling facility.

Refer to the manufacturer or supplier for information on recovery or recycling, for options on reclamation, and on disposal of unused material.

Section 14: TRANSPORT INFORMATION

IMDG/IMO	UN number (see Note below)	3077
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
	Active ingredients	Atrazine
	Transport hazard class	9
	UN packing group number	III
	Marine pollutant	Yes
	Special precautions for users	
RID/ADR	UN number (see Note below)	3077
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
	Active ingredients	Atrazine
	Transport hazard class	9
	UN packing group number	III
	Environmental hazard	Yes
	Special precautions for users	
ICAO/IATA	UN number (see Note below)	3077
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
	Active ingredients	Atrazine
	Transport hazard class	9
	UN packing group number	III
	Environmental hazard	Yes
	Special precautions for users	
	MARPOL 73/758 Annex II, and the IBC Code: Transport in bulk	Not applicable



Note: UN 3077 and UN 3082 – 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 5 litres for liquids, or 5 kg and less for solids

Section 15: REGULATORY INFORMATION

Relevant safety regulations *	Regulations for Hazardous Chemical Agents 2021, Department of Employment and Labour (March 2021).
Relevant health regulations *	Occupational Health and Safety Act, Act 85 of 1993, Department of Employment and Labour.
Relevant environmental regulations *	Guidelines on the administration of incidents, as described in section 30 of the National Environmental Management Act, Act 107 of 1998 (NEMA), Department of Environmental Affairs (2019). Waste Classification and Management Regulations 2013, National Environmental Management Waste Act, Act 59 of 2008, Department of Water and Environmental Affairs.
Relevant transport regulations *	The National Road Traffic Act 93 of 1996, Department of Transport. SANS 10228: The identification and classification of dangerous goods for transport by road and rail modes (2012).
Other relevant regulations *	Regulations to Domesticicate the Requirements of the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade, 2023, Department of Forestry, Fisheries and the Environment (February 2023).
Subject to the Montreal Protocol	No.
Subject to the Stockholm Convention	No.
Subject to the Rotterdam Convention	Yes.
Subject to any prohibitions	No.
Subject to any restrictions	No.

Section 16: OTHER INFORMATION

Revision notes

Changes and additions made to the last revision are marked with an asterisk (*)
Additional data was added to Sections 11 (Toxicological Information) and 12 (Ecological Information).
Relevant regulations were listed in Section 15 (Regulatory Information)

Full text of hazard statements referred to in Sections 2 and 3

H317 – May cause an allergic skin reaction
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

Abbreviations used

ADI means acceptable daily intake.
ADR means Agreement Concerning the International Carriage of Dangerous Goods by Road.
AOEL means Acceptable Operator Exposure Level.
CAS Number means Chemical Abstract Service number.
EC Number means European Inventory of Existing Commercial Substances (EINECS) or European List of Notified Chemical Substances (ELINCS) number.

EC₅₀ means the concentration at which 50% of the test organisms are affected.
GHS means Globally Harmonised System of Classification and Labelling of Chemicals.
IMDG means International Maritime Dangerous Goods.
IMO means International Maritime Organisation.
LC₅₀ means the lethal concentration to 50% of a test population (the median lethal concentration).
LD₅₀ means the lethal dose to 50% of a test population (the median lethal dose).
NEMA means National Environmental Management Act.
NOEC means no observed effect concentration.
PEL means permissible exposure limit.
RE means repeated exposure.
RID means Regulations Concerning the International Carriage of Dangerous Goods by Rail.
SE means single exposure.
SDS means safety data sheet.
STOT means specific target organ toxicity.
TWA means time-weighted average.
UN means United Nations.
WG means water dispersible granules.

Reviser's code: KQ-kn-1147

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.

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