



Safety Data Sheet

Revision date: 12-August-2003

replaces all previous editions

GESAPRIM

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR UNDERTAKING

Identification of the substance or preparation

Tradename GESAPRIM
Design Code A3491S
AGI Codes 56225 / 11699

Company identification

Company Syngenta Crop Protection UK Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characteristic

Formulation type	Suspension concentrate	
Use	Herbicide	
Active ingredient(s)	50 % w/v atrazine	G30027

Hazardous Component(s)

CAS	Name	% w/w	Hazard symbols	Risks phrases (R)
1912-24-9	atrazine	45.5	N, Xn	43, 48/22, 50/53
137-20-2	ethanesulphonic acid, 2-[methyl(1-oxo-9-octadecenyl)amino]-, sodium salt, (Z)-	1-5	Xi	41
107-21-1	Ethane-1,2-diol	5-10	Xn	22
27323-41-7	benzenesulphonic acid, dodecyl-, compd. with 2,2',2''-nitrilotris[ethanol] (1:1)	1-5	Xi	36/41

For information on exposure limit values see section 8.

3. HAZARDS IDENTIFICATION

Health Hazards: Harmful: danger of serious damage to health by prolonged exposure if swallowed. May cause allergic reaction.

Environmental hazard in case of accident (Spillage/Leakage): Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

First-Aid Measures

General: Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from undercooling. IN CASE OF SUSPECTED POISONING: Immediately call a physician.

Eye Contact: Rinse eyes with clean water for several minutes and immediately call a physician.

Ingestion: Repeatedly administer medicinal charcoal in a large quantity of water. NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

Medical Instructions

Antidote: No specific antidote is known! Apply symptomatic therapy.

Experiences Specific to Man: No case of human poisoning is on record.

5. FIRE-FIGHTING MEASURES

Combustibility: This product is combustible at elevated temperatures.

Suitable Extinguishing Media: Dry chemical extinguisher, foam, carbon dioxide or waterspray (do not use direct jet of water).

Special Hazards during Fire Fighting: Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Hazardous Combustion Products: carbon dioxide; carbon monoxide; nitrogen oxides; hydrogen chloride.

Protective Equipment for Fire Fighting: Use self contained breathing apparatus. Wear protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Environmental Protection Measures following Accidents: Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers.

7. HANDLING AND STORAGE

General: Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Exposed operating positions must have an efficient local exhaust source, working areas must be well ventilated. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like splashproof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

Special Instructions for Storage: Store the product in closed original containers. Protect from light. Store away from frost.

Storage Compatibility with other Products: Store separately from feed, food and stimulants.

Maximum Storage Temperature: 35 °C

Minimum Storage Temperature: 0 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits;

Hazardous ingredients HSE, EH40/2002:

ethane-1,2-diol Sk IOELV.:

LTEL, (8 hr TWA): Particulate 10 mg/m³ Vapour 52 mg/m³

STEL, (15 minutes): Vapour 104 mg/m³

formaldehyde:

LTEL, (8 hr TWA): 2 ppm, 2.5 mg/m³.

STEL (15 minute): 2 ppm, 2.5 mg/m³.

Personal protective equipment

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

In General: Change working clothes daily.

Breathing Protection: In case of heavy exposure, wear: Gas mask with universal filter.

Eye Protection: Goggles or face-shield.

Hand Protection: Chemical-resistant gloves.

Body Protection: Heavy duty cotton or synthetic fabric working clothes (e.g. overalls).

Precautionary measures after work: Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	white to grey beige	
Physical State:	liquid	
Solidification Point:	< 0 °C	
Boiling Point/Range:	> 90 °C	
Flash-Point:	>= 90 °C	EEC A 9
Oxidizing Properties:	not oxidizing	
Explosive Properties		EEC A 14
Assessment:	not explosive	
Shock Sensitivity:	not shock sensitive	
Density:	1.09 - 1.13 g/cm ³ (20 °C)	OECD 109
Solubility in water	not soluble	
assessment:		
pH Value:	4 - 8 (1 %; in deionised water)	CIPAC MT 75.2
Partition Coefficient (log):	not applicable	
Surface Tension:	52.6 - 56.5 mN/m (0.1 g/l; Suspension in distilled water; 20 °C)	OECD 115
Surface Tension:	47.3 mN/m (2.0 g/l; Suspension in distilled water; 20 °C)	EEC A 5
Surface Tension:	34.1 mN/m (60.0 g/l; Suspension in distilled water; 20 °C)	EEC A 5
Miscibility with water:	miscible	
Dynamic Viscosity:	54.0 - 319 mPa.s (10 - 200 rps; 20 °C)	OECD 114
Dynamic Viscosity:	44.4 - 308 mPa.s (10 - 200 rps; 40 °C)	OECD 114

10. STABILITY AND REACTIVITY

Chemical Stability Assessment: Stable under standard conditions.

Sensitivity to humidity: Not sensitive to humidity.

Thermal Sensitivity: Thermally not sensitive.

Corrosiveness / Non-appropriate Material: Iron.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity		OECD 401
LD50:	> 3000 mg/kg (rat)	
Acute Dermal Toxicity		OECD 402
LD50:	> 4000 mg/kg (rat)	
Acute Inhalation Toxicity		OECD 403
LC50:	> 2.03 mg/l (rat; 4 h)	
Acute Skin Irritation:	non irritant (rabbit)	OECD 404
Acute Eye Irritation:	non irritant (rabbit)	OECD 405
Skin Sensitisation:	not sensitising (guinea pig)	OECD 406

12. ECOLOGICAL INFORMATION

Acute Toxicity to Fish		OECD 203
LC50:	18 mg/l (<i>Salmo trutta</i> (trout); 96 h)	
LC50:	22 mg/l (<i>Cyprinus carpio</i> (Common carp); 96 h)	
LC50:	56 mg/l (bluegill; 96 h)	
Growth Inhibition, Algae		OECD 201
EC50:	0.041 mg/l (<i>Scenedesmus subspicatus</i> (green algae); 72 h)	
Toxicity to Aquatic Invertebrates		OECD 202
LC50:	60 mg/l (<i>Daphnia magna</i> (water flea); 48 h)	

13. DISPOSAL CONSIDERATIONS

Product Disposal: Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean dirty areas with water and detergent. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

Container Disposal: Dispose of empty containers in an incinerator approved for chemicals. Damaged containers: Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

14. TRANSPORT INFORMATION

Special Information: Use unbreakable containers, make sure they cannot fall, and label in accordance with regulations.

Rail / Road (RID / ADR)	Class	UN number	Packaging Group	Kemmler Index
Proper Shipping Name	9	3082	III	90
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (ATRAZINE)			
Sea (IMDG-Code)	Class	UN number	Packaging Group	
Proper Shipping Name	9	3082	III	
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (ATRAZINE 45%)			
Marine pollutant	yes			
Air (ICAO / IATA)	Class	UN number	Packaging Group	
Proper Shipping Name	9	3082	III	
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (ATRAZINE)			

15. REGULATORY INFORMATION

Hazard Symbols/ Classifications	N	Dangerous for the environment.
	Xn	Harmful.
Risk phrases (R)	48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases (S)	2	Keep out of the reach of children.
	13	Keep away from food, drink and animal feeding stuffs.
	20/21	When using do not eat, drink or smoke.
	35	This material and its container must be disposed of in a safe way.
	57	Use appropriate containment to avoid environmental contamination.
Source of Hazard		Atrazine.
International WHO Toxicity Classification	-	III: Product unlikely to present acute hazard in normal use.

16. OTHER INFORMATION

Product approval number: MAFF number 08411.

Based upon SDS release date 18/12/2002 with UK update. Significant revision to sections 3 and 15. DPD compliant.

Always read the label. Use pesticides safely.

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.
