MONSANTO COMPANY

Safety Data Sheet Commercial Product

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Degree Xtra® Herbicide

EPA Reg. No. 524-511 **Product use** Herbicide Chemical name Not applicable. Synonyms None. Company MONSANTO COMPANY, 800 N. Lindbergh Blvd., St. Louis, MO, 63167 Telephone: 800-332-3111 Fax: 314-694-5557 E-mail: safety.datasheet@monsanto.com **Emergency numbers** FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted).

FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

2. HAZARDS IDENTIFICATION

Emergency overview

Appearance and odour (colour/form/odour): Whitish / Liquid / Slight

RESTRICTED USE PESTICIDE due to ground and surface water concerns.

CAUTION!

Potential health effects

Likely routes of exposure

Skin contact, eye contact, inhalation

Eye contact, short term

Not expected to produce significant adverse effects when recommended use instructions are followed. **Skin contact, short term**

Not expected to produce significant adverse effects when recommended use instructions are followed. May cause allergic skin reaction.

Inhalation, short term

Not expected to produce significant adverse effects when recommended use instructions are followed. **Single ingestion**

Not expected to produce significant adverse effects when recommended use instructions are followed.

Refer to section 11 for toxicological and section 12 for environmental information.

OSHA Status

This product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient

2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl) acetamide; {Acetochlor} 6-chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine; {Atrazine}

Composition		
COMPONENT	CAS No.	% by weight (approximate)
Acetochlor	34256-82-1	29
Atrazine	1912-24-9	14.5
Glycerin	56-81-5	12
Hydrocarbon solvent	64742-47-8	<=2
Surfactant(s), water and minor formulating		<=43
ingredients		

The specific chemical identity is being withheld because it is trade secret information of Monsanto Company.

4. FIRST AID MEASURES

Use personal protection recommended in section 8.

Eye contact

If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Sensitized persons should avoid further contact and reuse of contaminated clothing.

Inhalation

If inhaled, move person to fresh air. If person is not breathing, call emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Ingestion

Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash point

Does not flash.

Extinguishing media

Recommended: Water, foam, dry chemical, carbon dioxide (CO2)

Unusual fire and explosion hazards

None.

Minimise use of water to prevent environmental contamination. Environmental precautions: see section 6.

Hazardous products of combustion

Carbon monoxide (CO), nitrogen oxides (NOx), hydrogen chloride (HCl)

Fire fighting equipment

Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protection recommended in section 8.

Environmental precautions

Minimise spread. Contain spillage with sand bags or other means. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

Methods for cleaning up

Contain spillage with sand bags or other means. Absorb in earth, sand or absorbent material. Dig up heavily contaminated soil. Collect in containers for disposal. Place leaking containers in oversize leakproof drums for transport. Wash spill area with detergent and water. Minimise use of water to prevent environmental contamination.

Refer to section 13 for disposal of spilled material. Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

Handling

Avoid prolonged or repeated contact with skin.

When using do not eat, drink or smoke.

Wash outside of gloves before removing.

Wash hands thoroughly after handling or contact.

Wash contaminated clothing before re-use.

Thoroughly clean equipment after use.

Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.

Refer to section 13 of the safety data sheet for disposal of rinse water.

Emptied containers retain vapour and product residue.

FOLLOW LABELLED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

Storage

Compatible materials for storage: stainless steel, Heresite[TM]-lined steel, high-density polyethylene (HDPE), polypropylene (PP), Teflon[TM], polyvinylidene difluoride (PVDF) Incompatible materials for storage: unlined mild steel, aluminium, polyvinyl chloride (PVC), Contact with mild

steel may cause color change and reduce product's ability to emulsify with water.

Keep out of reach of children.

Keep away from food, drink and animal feed.

Keep only in the original container.

Keep container tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits

Components	Exposure Guidelines
Acetochlor	No specific occupational exposure limit has been established.
Atrazine	TLV (ACGIH): 5 mg/m3 (TWA) PEL (OSHA): No specific occupational exposure limit has been established.
Glycerin	TLV (ACGIH): 10 ppm: The exposure limit is for mist only. PEL (OSHA): 15 mg/m3: total dust, The exposure limit is for mist only. PEL (OSHA): 5 mg/m3: respirable fraction, The exposure limit is for mist only.
Hydrocarbon solvent	TLV (ACGIH): No specific occupational exposure limit has been established. PEL (OSHA): No specific occupational exposure limit has been established. Manufacturer suggested exposure limit: 1,200 mg/m3: 152 ppm: Measured as total hydrocarbon vapor
Surfactant(s), water and minor formulating ingredients	No specific occupational exposure limit has been established.

Engineering controls

No special requirement when used as recommended.

Eye protection

No special requirement when used as recommended.

Skin protection

Wear chemical resistant gloves.

If there is significant potential for contact:

Wear chemical resistant clothing/footwear.

Applicators and other handlers must wear:

Wear long sleeved shirt, long pants and shoes with socks.

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment.

If no such instructions for washables, use detergent and hot water.

Keep and wash personal protective equipment separately from other laundry.

Respiratory protection

No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range:	Whitish	
Odour:	Slight	
Form:	Liquid	
Physical form changes (melting, boiling, etc.):		
Melting point:	Not applicable.	
Boiling point:	No data.	
Flash point:	Does not flash.	
Explosive properties:	No explosive properties	
Auto ignition temperature:	No data.	

Specific gravity:	1.1159
Vapour pressure:	No significant volatility; aqueous solution.
Vapour density:	Not applicable.
Evaporation rate:	No data.
Dynamic viscosity:	~ 400 Pa.s @ 10 °C
Kinematic viscosity:	No data.
Density:	1.0905 g/cm3
Solubility:	Water: Completely miscible.
pH:	8.5
Partition coefficient:	log Pow: 4.14 @ 20 °C (acetochlor)
Partition coefficient:	log Pow: 2.5 @ 25 °C (atrazine)

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of handling and storage.

Oxidizing properties

No data.

Materials to avoid/Reactivity

Corrosive to mild steel.

Corrosive to aluminium.

Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

Self-accelerating decomposition temperature (SADT)

No data.

Hazardous polymerization

Does not occur.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

Data obtained on similar products and on components are summarized below.

Similar formulation

Acute oral toxicity Rat, LD50: > 5,000 mg/kg body weight Practically non-toxic. FIFRA category IV. Acute dermal toxicity Rat, LD50: > 5,000 mg/kg body weight Practically non-toxic. FIFRA category IV. No mortality. Skin irritation Rabbit, 6 animals, OECD 404 test: Days to heal: 2 Primary Irritation Index (PII): 0.3/8.0 FIFRA category IV. Essentially non irritating.

Eye irritation

Rabbit, 9 animals, OECD 405 test:

Days to heal: 3 FIFRA category IV.

Essentially non irritating.

Acute inhalation toxicity

Rat, LC50, 4 hours, aerosol:

- Practically non-toxic.
- FIFRA category IV.

No mortality. No 4-hr LC50 at the maximum tested concentration.

Skin sensitization

Guinea pig, 3-induction Buehler test:

Positive incidence: 32 % Positive.

Acetochlor

Mutagenicity In vivo mutagenicity test(s): Not mutagenic. In vitro mutagenicity test(s): Mutagenic/Genotoxic in some assays. **Repeated dose toxicity** Rat, oral, 90 days: NOAEL toxicity: 18 mg/kg body weight/day Target organs/systems: none Other effects: decrease of body weight gain, decrease of food consumption Rabbit, dermal, 21 days: NOAEL toxicity: 400 mg/kg body weight/day Target organs/systems: none Other effects: increased mortality, decrease of body weight gain **Chronic effects/carcinogenicity** Rat, oral, 2 years: NOAEL toxicity: 10 mg/kg body weight/day Target organs/systems: liver, kidneys Other effects: decrease of body weight gain, organ weight change, blood biochemistry effects NOEL tumour: 10 mg/kg body weight/day Tumours: nose, thyroid; Tumours not relevant for man based on mechanistic data. Tumours: liver; Tumours only above MTD. Mouse, oral, 18 months: NOAEL toxicity: 1.1 mg/kg body weight/day Target organs/systems: kidneys, liver Other effects: histopathologic effects, haematological effects, decrease of body weight gain NOEL tumour: 1.1 mg/kg body weight/day Tumours: lung, histiocytic sarcoma; Tumours probably not related to treatment. Tumours: liver; Tumours only above MTD. Toxicity to reproduction/fertility Rat, oral, 2 generations: NOAEL toxicity: 21 mg/kg body weight/day NOAEL reproduction: 66 mg/kg body weight/day Target organs/systems in parents: liver, kidneys, thyroid Other effects in parents: decrease of body weight gain, organ weight change, histopathologic effects Target organs/systems in pups: none Other effects in pups: decrease of body weight gain, change in sexual maturation landmarks Effects on offspring only observed with maternal toxicity.

Developmental toxicity/teratogenicity

Rat, oral, 6 - 18 days of gestation: NOAEL toxicity: 200 mg/kg body weight NOAEL development: 400 mg/kg body weight Target organs/systems in mother animal: none Other effects in mother animal: decrease of body weight gain No adverse treatment related effects in offspring. Rabbit, oral, 7 - 19 days of gestation: NOAEL toxicity: 100 mg/kg body weight/day NOAEL development: 300 mg/kg body weight/day Target organs/systems in mother animal: none Other effects in mother animal: decrease of body weight gain No adverse treatment related effects in offspring. Acute neurotoxicity Rat, oral, single dose, gavage: NOAEL: 150 mg/kg body weight Other effects: decreased activity **Repeated dose neurotoxicity** Rat, oral, 13 weeks, dietary:

NOAEL: 52 mg/kg body weight/day Target organs/systems: none Other effects: decrease of body weight gain, decrease of food consumption Not neurotoxic.

EXPERIENCE WITH HUMAN EXPOSURE

Skin contact, short term, occupational:

Skin effects: sensitization in susceptible individuals

<u>Atrazine</u>

Mutagenicity Ames test(s): Not mutagenic without metabolic activation. In vivo chromosomal aberration test(s): Not mutagenic. In vitro DNA-repair test(s): Not mutagenic. **Dominant lethal test(s)**: Not mutagenic. **Repeated dose toxicity** Rat, oral, 90 days: NOAEL toxicity: 3.3 mg/kg body weight/day Target organs/systems: none Other effects: decrease of body weight gain Rabbit, dermal, 25 days: NOAEL toxicity: 10 mg/kg body weight/day Target organs/systems: spleen Other effects: decrease of food consumption, weight loss, organ weight change, haematological effects, histopathologic effects, blood biochemistry effects **Chronic effects/carcinogenicity** Rat, oral, 24 months: NOAEL toxicity: 3.5 mg/kg body weight/day Target organs/systems: eyes, kidneys, liver, mammary gland, prostate, skeletal muscle Other effects: decrease of food consumption, weight loss, organ weight change, haematological effects, histopathologic effects, blood biochemistry effects NOEL tumour: 0.45 mg/kg body weight/day Tumours: mammary gland, (adenocarcinoma)

Tumours only at or above MTD. Tumours not relevant for man based on mechanistic data. Mouse, oral, 91 weeks: NOAEL toxicity: 43 mg/kg body weight/day Target organs/systems: heart Other effects: decrease of food consumption, weight loss, organ weight change, histopathologic effects NOEL tumour: ~ 400 mg/kg body weight/day Tumours not related to treatment. **Toxicity to reproduction/fertility** Rat, oral, 2 generations: NOAEL toxicity: 50 mg/kg diet NOAEL reproduction: 500 mg/kg diet Target organs/systems in parents: none Other effects in parents: decrease of body weight gain Target organs/systems in pups: none Other effects in pups: none **Developmental toxicity/teratogenicity** Rat, oral, 6 - 15 days of gestation: NOAEL toxicity: 10 mg/kg body weight NOAEL development: 10 mg/kg body weight Other effects in mother animal: weight loss, decrease of body weight gain, decrease of survival Developmental effects: weight loss, delayed ossification Effects on offspring only observed with maternal toxicity. Rabbit, oral, 7 - 19 days of gestation: NOAEL toxicity: < 1 mg/kg body weight NOAEL development: 1 mg/kg body weight Other effects in mother animal: weight loss, decrease of survival Developmental effects: weight loss, post-implantation loss, delayed ossification Effects on offspring only observed with maternal toxicity. Hydrocarbon solvent (aliphatic) EXPERIENCE WITH HUMAN EXPOSURE Skin contact, repeated, non occupational, occupational: Skin effects: irritation Eye contact, , non occupational, occupational: Eve effects: irritation

Inhalation, excessive, non occupational, occupational: Gastro-intestinal effects: nausea/vomiting General/systemic effects: fatigue Neurological effects: headache, confusion, incoordination, drowsiness, vertigo/dizziness, disturbance of level of consciousness, convulsions

Ingestion, short term, intentional misuse, accidental misuse: Respiratory effects: pneumonitis (aspiration) Gastro-intestinal effects: abdominal pain, diarrhoea Note: May cause effects similar to those described under Inhalation.

Glycerin

Mutagenicity

In vitro and in vivo mutagenicity test(*s*): Not mutagenic on the basis of weight-of-evidence analysis.

Repeated dose toxicity

Rat, inhalation, 13 weeks: NOAEL toxicity: 165 mg/m3 Target organs/systems: none Other effects: local irritation

Chronic effects/carcinogenicity

Rat, oral, 2 years: NOAEL toxicity: 10,000 mg/kg body weight/day Target organs/systems: none Other effects: none No evidence of carcinogenicity. **Toxicity to reproduction/fertility** Rat, oral, 2 generations: NOAEL toxicity: 2,000 mg/kg body weight/day NOAEL reproduction: 2,000 mg/kg body weight/day

Target organs/systems in parents: none

Target organs/systems in pups: none

Developmental toxicity/teratogenicity

Rabbit, oral:

NOAEL toxicity: 1,180 mg/kg body weight/day NOAEL development: 1,180 mg/kg body weight/day Target organs/systems in mother animal: none Other effects in mother animal: none Developmental effects: none Other effects in foetus: none

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

Data obtained on similar products and on components are summarized below.

Similar formulation

Aquatic toxicity, fish Rainbow trout (Oncorhynchus mykiss): Acute toxicity, 96 hours, flowthrough, LC50: 2.93 mg/L Moderately toxic. Aquatic toxicity, invertebrates Water flea (Daphnia magna): Acute toxicity, 48 hours, flowthrough, EC50: 27.5 mg/L Slightly toxic. Soil organism toxicity, invertebrates Earthworm (Eisenia foetida): Acute toxicity, 14 days, LC50: 739.9 mg/kg dry soil Slightly toxic. Soil organism toxicity, microorganisms Nitrogen and carbon transformation test: 30 L/ha, 28 days: No effect on nitrogen transformation. Less than 25% effect on nitrogen or carbon transformation processes in soil. Similar formulation Aquatic toxicity, algae/aquatic plants Green algae (Selenastrum capricornutum):

Acute toxicity, 72 hours, static, EbC50 (biomass): 5.01 µg/L Very highly toxic.

Acetochlor

Avian toxicity

Bobwhite quail (Colinus virginianus): Acute oral toxicity, single dose, LD50: 928 - 1,560 mg/kg body weight Mallard duck (Anas platyrhynchos): Acute oral toxicity, single dose, LD50: > 2,000 mg/kg body weightPractically non-toxic. Mallard duck (Anas platyrhynchos): Dietary toxicity, 5 days, LC50: > 5,620 mg/kg diet Practically non-toxic. **Bobwhite quail (Colinus virginianus):** Dietary toxicity, 5 days, LC50: > 5,620 mg/kg diet Practically non-toxic. Arthropod toxicity Honey bee (Apis mellifera): Oral, 48 hours, LD50: > 100 µg/bee Practically non-toxic. Honey bee (Apis mellifera): Contact, 48 hours, LD50: $> 200 \mu g/bee$ Practically non-toxic. **Bioaccumulation** Bluegill sunfish (Lepomis macrochirus): Whole fish: BCF: 20 Rapid depuration after end of exposure. Dissipation Water, aerobic, 20 °C: Half life: 25.9 - 55.1 days Soil, aerobic, 20 °C: Half life: 3.4 - 29 days Koc: 74 - 422 **Atrazine** Avian toxicity **Bobwhite quail (Colinus virginianus):** Dietary toxicity, 5 days, LC50: > 5,000 mg/kg diet Practically non-toxic. Mallard duck (Anas platyrhynchos): Dietary toxicity, 5 days, LC50: > 5,000 mg/kg diet Practically non-toxic. Mallard duck (Anas platyrhynchos): Acute oral toxicity, single dose, LD50: > 2,000 mg/kg body weight Practically non-toxic. Arthropod toxicity Honey bee (Apis mellifera): Contact, 48 hours, LD50: $> 97 \mu g/bee$ Bioaccumulation **Bluegill sunfish (Lepomis macrochirus):** Edible portion: BCF: 8 Rapid depuration after end of exposure. Bluegill sunfish (Lepomis macrochirus): Whole fish: BCF: 15 Rapid depuration after end of exposure.

13. DISPOSAL CONSIDERATIONS

Product

Excess product may be disposed of by agricultural use according to label instructions. Keep out of drains, sewers, ditches and water ways.

Recycle if appropriate facilities/equipment available. Burn in special, controlled high temperature incinerator. Follow all local/regional/national/international regulations.

Container

See the individual container label for disposal information. Emptied containers retain vapour and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Empty packaging completely. Triple or pressure rinse empty containers. Do NOT contaminate water when disposing of rinse waters. Ensure packaging cannot be reused. Do NOT re-use containers. Store for collection by approved waste disposal service. Recycle if appropriate facilities/equipment available. Follow all local/regional/national/international regulations.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Not regulated for domestic ground transportation.

IMDG Code

MARINE POLLUTANT Use description for ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA/ICAO

Use description for ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

15. REGULATORY INFORMATION

TSCA Inventory

Exempt

OSHA Hazardous Components

Acetochlor Atrazine Hydrocarbon solvent Glycerin

SARA Title III Rules

Section 311/312 Hazard Categories Immediate, Delayed Section 302 Extremely Hazardous Substances Not applicable. Section 313 Toxic Chemical(s) Atrazine

CERCLA Reportable quantityNot applicable.

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data. Follow all local/regional/national/international regulations. Please consult supplier if further information is needed. In this document the British spelling was applied. || Significant changes versus previous edition.

	Health	Flammability	Instability	Additional Markings		
NFPA	2	1	1			
0 = Minimal hazard, $1 =$ Slight hazard, $2 =$ Moderate hazard, $3 =$ Severe hazard, $4 =$ Extreme hazard						

Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), NOAEC (Lowest Observed Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Effect Level), NOEC (No Observed Effect Concentration), NOAEL (No Observed Effect Level), NOEC (No Observed Effect Concentration), NOAEL (No Observed Effect Level), OEL (Cocupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

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