

**DuPont™ Breakfree® NXT Lite Herbicide**

Version 2.0

Revision Date 11/23/2015

Ref. 130000129990

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ Breakfree® NXT Lite Herbicide  
Tradename/Synonym : ACETOCHLOR: 2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetanilide  
ATRAZINE: [2-chloro-4-(ethylamino)-6-isopropylamino]-s-triazine] and related triazines

Product Use : Herbicide

Restrictions on use :  
Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : DuPont  
974 Centre Road  
Wilmington, DE 19805, USA

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION****Product hazard category**

Acute toxicity (Oral)	Category 4
Skin sensitisation	Category 1
Specific target organ toxicity - single exposure	Category 3
Specific target organ toxicity - repeated exposure	Category 2

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**Label content**

Pictogram

:



Signal word

: Warning

Hazardous warnings

: Harmful if swallowed.  
May cause an allergic skin reaction.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure. (Heart)

Hazardous prevention measures

: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.  
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Get medical advice/ attention if you feel unwell.  
Rinse mouth.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Wash contaminated clothing before reuse.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

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The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 36 %

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Atrazine	1912-24-9	18.3 %
Acetochlor	34256-82-1	46.3 %
Furilazole	121776-33-8	<=4 %
Other Ingredients		31.4 - 35.4 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4. FIRST AID MEASURES**

- General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
For medical emergencies involving this product, call toll free 1-800-441-3637.  
See Label for Additional Precautions and Directions for Use.
- Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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- Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Ingestion : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed : No applicable data available.
- Protection of first-aiders : No applicable data available.
- Notes to physician : No applicable data available.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Specific hazards : No applicable data available.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
- Further information : (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Wear suitable protective equipment.


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- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Spill Cleanup : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.  
If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.
- Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Do not breathe vapor or mist. Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Handling (Physical Aspects) : No applicable data available.
- Dust explosion class : No applicable data available.
- Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep tightly closed in a dry and cool place. Keep out of the reach of children.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls : Ensure adequate ventilation. Refer to the product label for additional Engineering Controls.
- Personal protective equipment
- Hand protection : Material: Chemical-resistant gloves
- Eye protection : Safety glasses with side-shields



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Skin and body protection : Mixers, loaders, applicators and other handlers must wear:  
 Long sleeved shirt and long pants  
 Chemical resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride.  
 Shoes plus socks  
 Chemical resistant apron when mixing, loading, or cleaning equipment or spills.  
 PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:  
 Coveralls  
 Chemical resistant gloves made of any waterproof material  
 Chemical resistant footwear plus socks  
 Protective eyewear

Protective measures : Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Use this product in accordance with its label.

Exposure Guidelines  
 Exposure Limit Values

Atrazine			
TLV	(ACGIH)	2 mg/m3	TWA Inhalable fraction.
AEL *	(DUPONT)	2.5 mg/m3	8 & 12 hr. TWA

Acetochlor  
 No applicable data available.

Furilazole  
 No applicable data available.

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

## Appearance

Physical state : liquid  
Form : liquid, suspension  
Color : pink

Odor : mild

Odor threshold : No applicable data available.

pH : 7.0 - 8.5

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : closed cup  
does not flash

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : Not available for this mixture.

Lower explosion limit : Not available for this mixture.

Vapour Pressure : No applicable data available.

Vapor density : Not applicable

Density : 1.019 - 1.112 g/cm<sup>3</sup> at 20 °C (68 °F)

Specific gravity (Relative density) : 1.1  
(Water=1.0)

Water solubility : emulsifiable

Solubility(ies) : No applicable data available.

Partition coefficient: n-octanol/water : No applicable data available.

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Auto-ignition temperature : No applicable data available.  
Decomposition temperature : Not available for this mixture.  
Viscosity, kinematic : No applicable data available.  
Viscosity, dynamic : No applicable data available.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No applicable data available.  
Chemical stability : Stable  
  
Possibility of hazardous reactions : Polymerization will not occur.  
Conditions to avoid : None known.  
  
Incompatible materials : Avoid contact with: Aluminum, Mild steel  
  
Hazardous decomposition products : Decomposition will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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Dermal LD50 : > 5,000 mg/kg , Rat  
Information given is based on data obtained from similar substances.  
  
Oral LD50 : 1,249 mg/kg , Rat  
Information given is based on data obtained from similar substances.  
  
Skin irritation : No skin irritation, animals (unspecified species)  
  
Eye irritation : No eye irritation, animals (unspecified species)  
Minimal effects that do not meet the threshold for classification.  
  
Sensitisation : May cause sensitisation by skin contact., animals (unspecified species)  
  
Atrazine  
Inhalation 4 h LC50 : > 5.1 mg/l , Rat




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## Furilazole

Inhalation 4 h LC50 : > 2.3 mg/l , Rat  
 An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

## Atrazine

Repeated dose toxicity : Ingestion  
 Dog  
 -  
 Target Organs: Heart  
 cardiovascular system effects

Carcinogenicity : Not classifiable as a human carcinogen.

Mutagenicity : Animal testing did not show any mutagenic effects.

Reproductive toxicity : Weight of evidence does not support classification for reproductive toxicity

## Acetochlor

Repeated dose toxicity : Ingestion  
 multiple species  
 - 90 d  
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., altered blood chemistry, Liver effects, Kidney effects, Testicular effects, Central nervous system effects

Carcinogenicity : Not classifiable as a human carcinogen.  
 Overall weight of evidence indicates that the substance is not carcinogenic.

Mutagenicity : Weight of evidence does not support classification as a germ cell mutagen.

Reproductive toxicity : Weight of evidence does not support classification for reproductive toxicity  
 No effects on or via lactation

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.


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**Carcinogenicity**

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 12. ECOLOGICAL INFORMATION**
**Aquatic Toxicity**
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96 h LC50 : Oncorhynchus mykiss (rainbow trout) 1.2 mg/l

72 h EbC50 : Pseudokirchneriella subcapitata (green algae) 0.00501 mg/l  
Information given is based on data obtained from similar substances.

**Atrazine**

48 h EC50 : Daphnia magna (Water flea) 6.9 mg/l

**Acetochlor**

48 h EC50 : Daphnia magna (Water flea) 8.6 mg/l OECD Test Guideline 202

: NOEC Oncorhynchus mykiss (rainbow trout) 0.013 mg/l

21 d : NOEC Daphnia magna (Water flea) 0.221 mg/l

**Furilazole**

48 h EC50 : Daphnia magna (Water flea) 26 mg/l

**Toxicity to other organisms**
**Acetochlor**

LD50 : Colinus virginianus (Bobwhite quail) 928 mg/kg

LC50 : Colinus virginianus (Bobwhite quail) > 5,620 mg/kg

LC50 : Anas platyrhynchos (Mallard duck) > 5,620 mg/kg

**Furilazole**

LD50 : Colinus virginianus (Bobwhite quail) > 2,000 mg/kg

LC50 : Colinus virginianus (Bobwhite quail) > 5,620 ppm


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LC50 : Anas platyrhynchos (Mallard duck) > 5,620 ppm

**Environmental Fate**
**Furilazole**

Biodegradability : Not biodegradable  
Not readily biodegradable.

Additional ecological information : Environmental Hazards: This product is toxic to fish. Very toxic to aquatic organisms. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. See product label for additional application instructions relating to environmental precautions.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste disposal methods - Product : Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Waste disposal methods - Container : Refer to the product label for instructions.

Contaminated packaging : No applicable data available.

**SECTION 14. TRANSPORT INFORMATION**

IATA_C	UN number	: 3082
	Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Acetochlor, Atrazine)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3082

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Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (Acetochlor, Atrazine)  
Class : 9  
Packing group : III  
Labelling No. : 9  
Marine pollutant : yes (Acetochlor, Atrazine)

Not regulated as a hazardous material by DOT.

**SECTION 15. REGULATORY INFORMATION**

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and various state regulatory agencies, and is therefore also subject to certain requirements under US and state pesticide laws, including the Federal Insecticide Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is information determined by USEPA, and various states.

**CAUTION!**

Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. This product is toxic to fish. This product is highly toxic to: Aquatic organisms

SARA 313 Regulated Chemical(s) : Atrazine

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):  
Atrazine

Title III hazard classification : Acute Health Hazard: Yes  
Chronic Health Hazard: Yes  
Fire: No  
Reactivity/Physical hazard: No


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Pressure: No

EPA Reg. No. : 62719-670-352

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.

**SECTION 16. OTHER INFORMATION**
**NFPA**

Health : 2

Flammability : 1

Reactivity/Physical hazard : 1

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Contact person : DuPont Crop Protection, Wilmington, DE, 19805, Phone: 1-888-638-7668

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.

Significant change from previous version is denoted with a double bar.