

Version 3.0

Issue Date 03/18/2019 Ref. 130000129990

Revision Date 02/13/2019

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

DuPont™ Breakfree® NXT Lite Herbicide Product name

ACETOCHLOR: 2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetanilide Tradename/Synonym

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.

DuPont Manufacturer/Supplier

974 Centre Road

Wilmington, DE 19805, USA

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

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Acute toxicity (Oral) Category 4 Skin sensitisation Category 1 Specific target organ toxicity -Category 3

single exposure

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.

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/doctor 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.



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Other hazards

Information presented in Section 2 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

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.

Information presented in Section 4 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication

Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state

Regulatory Agencies.

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.



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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.

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

Protection of first-aiders Notes to physician : No applicable data available.

No applicable data available.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.



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Safeguards (Personnel) : Evacuate personnel to safe areas. Keep people away from and upwind of

spill/leak. Wear suitable protective equipment.

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)

Dust explosion class

Storage

No applicable data available.No applicable data available.

No applicable data available.

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. Information presented in Section 8 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable



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information conforming to the requirements of the Federal Insecticide

Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental

Protection Agency (EPA), or by state Regulatory Agencies.

Personal protective equipment

Hand protection : Material: Chemical-resistant gloves

Eye protection : Safety glasses with side-shields

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				
AEL *	(DuPont)	2.5 mg/m3	8 & 12 hr. TWA	
REL	(NIOSH)	5 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	TWA	
TLV	(ACGIH)	2 mg/m3	TWA	



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2-Chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide

No applicable data available.

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/cm3 at 20 °C (68 °F)

Specific gravity (Relative :

density) (Water=1.0)

^{*} 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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Water solubility : emulsifiable

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

: No applicable data available.

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

DuPont™ Breakfree® NXT Lite Herbicide

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.



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Sensitisation : May cause sensitisation by skin contact., animals (unspecified

species)

Further information : Information presented in this Section conforms to the requirements of

the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory

Agencies.

Atrazine

Inhalation 4 h LC50 : > 5.1 mg/l, Rat

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 dMethod: OECD Test Guideline 408

altered hematology, altered blood chemistry, Kidney effects, Liver

effects

Skin contact Rabbit - 21 d

NOAEL: 400 mg/kg

No toxicologically significant effects were found.



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Carcinogenicity : Suspected human carcinogens

An increased incidence of tumours was observed in laboratory

animals. Target(s): Lungs Uterus

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

mutagen.

Genetic damage in cultured bacterial cells was observed in some

laboratory tests but not in others.

Genetic damage in cultured mammalian cells was observed in some

laboratory tests but not in others.

Reproductive toxicity : Some evidence of adverse effects on sexual function and fertility,

based on animal experiments.

Animal testing showed effects on reproduction that included

Reduced fertility

Pathologic effects on reproductive organs

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels

equal to or above those causing maternal toxicity.

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.

Atrazine

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

DuPont™ Breakfree® NXT Lite Herbicide

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.

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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

60 d : NOEC Oncorhynchus mykiss (rainbow trout) 0.13 mg/l US EPA Test

Guideline OPP 72-4

21 d : NOEC Daphnia magna (Water flea) 0.022 mg/l OECD Test

Guideline 202

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

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

Environmental Fate

Acetochlor

Bioaccumulation : Bioaccumulation is unlikely.

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

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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

IMDG

Contaminated packaging

: Refer to the product label for instructions.

: 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. : 9
UN number : 3082

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

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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 311/312 Hazard

classification

: Acute toxicity (any route of exposure) Respiratory or skin sensitisation

Specific target organ toxicity (single or repeated exposure)

SARA 313 Regulated

Chemical(s)

: The following components are subject to reporting levels established by

SARA Title III, Section 313: 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

CERCLA Reportable

Quantity

: This material does not contain any components with a CERCLA RQ.

SARA Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

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 : This product can expose you to substances including Furilazole, which is/are

known to the State of California to cause cancer, and Atrazine, which is/are known to the State of California to cause birth defects or other reproductive



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harm. For more information go to www.P65Warnings.ca.gov.

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.