



## DuPont™ Stout™ Herbicide

Version 4.0

Issue Date : 03/18/2019 Ref. 130000033396  
 Revision Date : 10/08/2018

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™ Stout™ Herbicide  
 Tradename/Synonym : NICOSULFURON (2-[[[4,6-dimethoxypyrimidin-2-yl)aminocarbonyl]aminosulfonyl]-N,N-dimethyl-3-pyridinecarboxamide THIFENSULFURON METHYL Methyl 3-[[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate DPX-NHG22

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 : +1-800-424-9300 (outside the U.S. +1-703-527-3887)

### SECTION 2. HAZARDS IDENTIFICATION

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

#### Other hazards

If you mill or grind this product you may change its toxicological properties. 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.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Nicosulfuron	111991-09-4	67.5 %

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Thifensulfuron methyl	79277-27-3	5 %
Modified Aromatic Sulfonate Salt		1 - 5 %
Sodium carbonate	497-19-8	1 - 5 %
Other Ingredients		17.1 - 25.9 %

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 : For medical emergencies involving this product, call toll free 1-800-441-3637. See Label for Additional Precautions and Directions for Use. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
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 : No specific intervention is indicated as the compound is not likely to be hazardous.
- 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. Do not give anything by mouth to an unconscious person.

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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 : Water, Foam, Dry chemical, Carbon dioxide (CO2)  
Unsuitable extinguishing media : High volume water jet, (contamination risk)  
Specific hazards : Not a fire or explosion hazard.  
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, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.  
Environmental precautions : Prevent material from entering sewers, waterways, or low areas.  
Spill Cleanup : Sweep up and shovel into suitable containers for disposal.  
Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

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**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. Remove clothing/PPE immediately if material gets inside. 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. Store in a cool, dry 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 : Use only with adequate ventilation. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown. 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 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  
Skin and body protection : Applicators and other handlers must wear:  
Long sleeved shirt and long pants  
Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils



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Shoes plus socks  
 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, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils  
 Shoes plus socks

Protective measures : 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.

Exposure Guidelines  
 Exposure Limit Values

<b>Nicosulfuron</b>			
AEL *	(DuPont)	5 mg/m3	8 & 12 hr. TWA

<b>Kaolin</b>			
Permissible exposure limit:	(OSHA)	5 mg/m3	8 hr. TWA
Permissible exposure limit:	(OSHA)	15 mg/m3	8 hr. TWA
Permissible exposure limit:	(OSHA)	15 millions of particles per cubic foot of air	TWA
Permissible exposure limit:	(OSHA)	50 millions of particles per cubic foot of air	TWA
Permissible exposure limit:	(OSHA)	5 mg/m3	TWA
Permissible exposure limit:	(OSHA)	15 mg/m3	TWA
TLV	(ACGIH)	2 mg/m3	TWA

<b>Thifensulfuron methyl</b>			
AEL *	(DuPont)	5 mg/m3	8 & 12 hr. TWA

<b>Sucrose</b>			
Permissible exposure limit:	(OSHA)	5 mg/m3	8 hr. TWA
Permissible exposure limit:	(OSHA)	15 mg/m3	8 hr. TWA
TLV	(ACGIH)	10 mg/m3	TWA


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**Sodium carbonate**

AEL *	(DuPont)	5 mg/m <sup>3</sup>	8 & 12 hr. TWA
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**Quartz**

Permissible exposure limit:	(OSHA)	0.05 mg/m <sup>3</sup>	8 hr. TWA
Permissible exposure limit:	(OSHA)	2.4 millions of particles per cubic foot of air	TWA
Permissible exposure limit:	(OSHA)	0.1 mg/m <sup>3</sup>	TWA
Permissible exposure limit:	(OSHA)	0.05 mg/m <sup>3</sup>	TWA
TLV	(ACGIH)	0.025 mg/m <sup>3</sup>	TWA
AEL *	(DuPont)	0.01 mg/m <sup>3</sup>	12 hr. TWA
AEL *	(DuPont)	0.02 mg/m <sup>3</sup>	8 hr. TWA

\* 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**
**Appearance**

 Physical state : solid  
 Form : solid, granules  
 Color : No applicable data available.

Odor : none

Odor threshold : No applicable data available.

pH : No applicable data available.

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : No applicable data available.

Evaporation rate : No applicable data available.

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

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Upper explosion limit : No applicable data available.  
Lower explosion limit : No applicable data available.  
Vapour Pressure : No applicable data available.  
Vapour density : No applicable data available.  
Specific gravity (Relative density) : No applicable data available.  
Water solubility : dispersible  
Solubility(ies) : No applicable data available.  
Partition coefficient: n-octanol/water : No applicable data available.  
Auto-ignition temperature : No applicable data available.  
Decomposition temperature : No applicable data available.  
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 at normal temperatures and storage conditions.  
Possibility of hazardous reactions : Polymerization will not occur.  
Conditions to avoid : No applicable data available.  
Incompatible materials : None reasonably foreseeable.  
Hazardous decomposition products : No applicable data available.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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Inhalation 4 h Acute toxicity estimate : 5.6 mg/l , Rat  
 Dermal Acute toxicity estimate : > 5,000 mg/kg , Rat  
 Dermal Acute toxicity estimate : > 5,000 mg/kg , Rabbit  
 Oral Acute toxicity estimate : > 5,000 mg/kg , Rat

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit  
 Minimal effects that do not meet the threshold for classification.

Sensitisation : Did not cause sensitisation on laboratory animals., Guinea pig

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.

## Nicosulfuron

Repeated dose toxicity : Ingestion  
 multiple species  
 - 90 d  
 No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.  
 Animal testing did not show any carcinogenic effects.

Mutagenicity : Animal testing did not show any mutagenic effects.  
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity : No toxicity to reproduction  
 Animal testing showed no 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.

## Thifensulfuron methyl

Repeated dose toxicity : The following effects occurred at levels of exposure that significantly





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exceed those expected under labeled usage conditions.

Oral - feed  
 multiple species

-  
 Reduced body weight gain

- Carcinogenicity : Animal testing did not show any carcinogenic effects.
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Animal testing did not show any mutagenic effects.
- Reproductive toxicity : No toxicity to reproduction  
 Animal testing showed no reproductive toxicity.
- Teratogenicity : Did not show teratogenic effects in animal experiments.  
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Sodium carbonate

- Repeated dose toxicity : Inhalation  
 human  
 -  
 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
- Carcinogenicity : Weight of evidence does not support classification as a carcinogen
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Weight of evidence does not support classification as a germ cell mutagen.  
 Information given is based on data obtained from similar substances.
- Reproductive toxicity : Weight of evidence does not support classification for reproductive toxicity
- Teratogenicity : Animal testing showed no developmental 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


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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).

Material	IARC	NTP	OSHA
Quartz	1	X	X

**SECTION 12. ECOLOGICAL INFORMATION**
**Aquatic Toxicity**  
 Nicosulfuron

96 h LC50	: Cyprinodon variegatus (sheepshead minnow) > 124 mg/l
7 d EC50	: Lemna gibba (duckweed) 0.0032 mg/l US EPA Test Guideline OPP 122-2 & 123-2
14 d NOEC	: Lemna gibba (duckweed) 0.0025 mg/l
48 h EC50	: Daphnia magna (Water flea) > 1,000 mg/l US EPA Test Guideline OPP 72-2
90 d	: NOEC Oncorhynchus mykiss (rainbow trout) 24 mg/l OECD Test Guideline 210
21 d	: NOEC Daphnia magna (Water flea) 43 mg/l OECD Test Guideline 202

**Thifensulfuron methyl**

96 h LC50	: Oncorhynchus mykiss (rainbow trout) > 100 mg/l
14 d EC50	: Lemna minor (duckweed) 0.0013 mg/l
48 h EC50	: Daphnia magna (Water flea) 470 mg/l
28 d	: NOEC Americamysis bahia (mysid shrimp) 7.93 mg/l

**Sodium carbonate**

96 h LC50	: Lepomis macrochirus (Bluegill sunfish) 300 mg/l
48 h LC50	: Ceriodaphnia dubia (water flea) 200 mg/l

**Environmental Fate**



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### Nicosulfuron

Bioaccumulation : Bioaccumulation is unlikely.

### Sodium carbonate

Bioaccumulation : Does not bioaccumulate.

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Do not apply where/when conditions favour runoff.

## SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Waste disposal methods - Container : Container Refilling and Disposal:  
 Refer to the product label for instructions.  
 Do not transport if this container is damaged or leaking.  
 In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

Contaminated packaging : Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.  
 Do not contaminate water when cleaning equipment or disposing of equipment washwaters.  
 Do not apply where/when conditions favour runoff.

## SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Nicosulfuron, Thifensulfuron-methyl)
	Class	: 9
	Packing group	: III


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IMDG	Labelling No.	: 9MI
	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Nicosulfuron, Thifensulfuron-methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Nicosulfuron, Thifensulfuron-methyl)

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!**

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing.

SARA 311/312 Hazard classification : No SARA Hazards

SARA 313 Regulated Chemical(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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): Kaolin, Sucrose, Sodium sulphate

CERCLA Reportable Quantity : Based on the percentage composition of this chemical in the product.:

493827 lbs	Phenol
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SARA Reportable Quantity : Based on the percentage composition of this chemical in the product.:

493827 lbs	Phenol
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EPA Reg. No. : 352-721  
 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 Naphthalene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**SECTION 16. OTHER INFORMATION**

	NFPA
Health :	1
Flammability :	1
Reactivity/Physical hazard :	0

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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.