



DuPont™ Westar® Herbicide

Version 2.0

Revision Date 07/10/2015

Ref. 130000029344

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™ Westar® Herbicide
Tradename/Synonym	:	DPX-GJP87 WESTAR HERBICIDE B11619703 DuPont VOR 111 HEXAZINONE: [3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4(1H,3H)-dione] SULFOMETURON METHYL: {Methyl 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]-carbonyl]amino]sulfonyl]benzoate}
Product Use	:	Herbicide
Restrictions on use	:	Do not use product for anything outside of the above specified uses
Manufacturer/Supplier	:	DuPont 4417 Lancaster Pike 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
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity - repeated exposure	Category 2



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Label content

Pictogram



Signal word

: Danger

Hazardous warnings

: Harmful if swallowed.
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.
(Respiratory system, Kidney)

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.
Wear eye protection/ face protection.
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Rinse mouth.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No applicable data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
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Hexazinone	51235-04-2	68.6 %
Sulfometuron methyl	74222-97-2	6.5 %
Sodium benzoate	532-32-1	10 - 15 %
Sodium alkylnaphthalene sulfonate		1 - 5 %
Modified Aromatic Sulfonate Salt		1 - 5 %
Other Ingredients		5 - 10 %

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** : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- 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.


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- 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.
- Most important symptoms/effects, acute and delayed : No applicable data available.
- Protection of first-aiders : No applicable data available.
- Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
- 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, 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.



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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) : 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) : Keep away from heat and sources of ignition. Avoid dust formation.

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 : Ensure adequate ventilation.

Personal protective equipment
 Skin and body protection : Applicators and other handlers must wear:
 Long sleeved shirt and long pants
 Shoes plus socks
 Protective eyewear
 Chemical resistant gloves made of any waterproof material
 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
 Shoes plus socks
 Protective eyewear



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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

Hexazinone			
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA Total dust
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA Respirable dust.

Sulfometuron methyl			
TLV	(ACGIH)	5 mg/m3	TWA
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA

Sodium Benzoate
No applicable data available.

Sodium alkylnaphthalene sulfonate			
AEL *	(DUPONT)	0.05 mg/m3	8 & 12 hr. TWA

Modified Aromatic Sulfonate Salt
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	: solid
Form	: granules
Color	: off-white

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Odor	: acrid, slight
Odor threshold	: No applicable data available.
pH	: 7.1
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.
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.



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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 : Strong bases
- Hazardous decomposition products : No applicable data available.

SECTION 11. TOXICOLOGICAL INFORMATION

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- Inhalation 4 h Acute toxicity estimate : > 5.2 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 : 1,398 mg/kg , Rat
- Skin irritation : No skin irritation, Rabbit
Minimal effects that do not meet the threshold for classification.
- Eye irritation : Corrosive, Rabbit
- Sensitisation : Animal test did not cause sensitization by skin contact., Guinea pig
- Further information : Information given is based on data on the components and the toxicology of similar products.

Hexazinone

- Repeated dose toxicity : No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
- Oral
- Dog



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		- Reduced body weight gain, Liver effects, Organ weight changes, altered blood chemistry
		Oral Rat
		- Reduced body weight gain, Organ weight changes, Liver
Carcinogenicity	:	Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.
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 Reduced body weights in offspring at maternally toxic doses.
Teratogenicity	:	Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity. Reduced body weights in offspring at maternally toxic doses.
Sulfometuron methyl Repeated dose toxicity	:	The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification. Oral Dog - Abnormal decrease in number of red blood cells Oral



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Rat
-
Reduced body weight gain, Liver effects, Organ weight changes

Oral
Mouse
-
Reduced body weight gain, Organ weight changes

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

Sodium benzoate

- Repeated dose toxicity : Oral
Rat
-
NOAEL: 1,000 mg/kg
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 mammalian cell cultures showed mutagenic effects.
Evidence suggests this substance does not cause genetic damage in cultured bacterial cells.
Evidence suggests this substance does not cause genetic damage in animals.
- Reproductive toxicity : No toxicity to reproduction
- Teratogenicity : Evidence suggests the substance is not a developmental toxin in animals.

Sodium alkylnaphthalene sulfonate



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- Repeated dose toxicity : Inhalation
Rat
-
Target Organs: Respiratory Tract
Respiratory tract damage, Pathologic changes
- Oral
Rat
-
Target Organs: Kidney
Kidney effects, Reduced body weight gain
- Reproductive toxicity : No toxicity to reproduction
Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
- 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.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Hexazinone

- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 320 mg/l
- 120 h ErC50 : Skeletonema costatum (Diatom) 0.022 mg/l
- 120 h NOEC : Skeletonema costatum (Diatom) 0.0041 mg/l
- 48 h EC50 : Daphnia magna (Water flea) 152 mg/l

Sulfometuron methyl



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- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 148 mg/l
- 120 h EC50 : Pseudokirchneriella subcapitata (green algae) 0.0046 mg/l
- 48 h EC50 : Daphnia magna (Water flea) > 150 mg/l

Sodium benzoate

- 96 h LC50 : Pimephales promelas (fathead minnow) 484 mg/l US EPA Test Guideline OPP 72-1
Information given is based on data obtained from similar substances.
- 48 h EC50 : Daphnia magna (Water flea) > 100 mg/l No information available.
- 6 d : NOEC Danio rerio (zebra fish) 10 mg/l no data available

Modified Aromatic Sulfonate Salt

- 48 h LC50 : Oryzias latipes (Orange-red killifish) 360 mg/l
- 72 h EC50 : Algae 102.5 mg/l
- 48 h EC50 : Daphnia (water flea) 334.2 mg/l

Environmental Fate

Modified Aromatic Sulfonate Salt

- Biodegradability : Not readily biodegradable.
- Bioaccumulation : Bioaccumulation is unlikely.

Additional ecological information

: 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. The active ingredient, hexazinone, in this product is known to leach through soil into ground water under certain conditions as a result of agricultural use. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination. No data is available on the product itself.

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



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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 : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Hexazinone, Sulfometuron methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Hexazinone, Sulfometuron methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Hexazinone, Sulfometuron 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 is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information


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required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information required by USEPA on the pesticide label:

Danger

CORROSIVE - CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF SWALLOWED. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling.

SARA 313 Regulated Chemical(s)	: Hexazinone
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): 1,2-Benzisothiazol-3(2H)-one 1,1-dioxide
Title III hazard classification	: Acute Health Hazard: Yes Chronic Health Hazard: No Fire: No Reactivity/Physical hazard: No Pressure: No
EPA Reg. No.	: 352-626 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.

SECTION 16. OTHER INFORMATION

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Contact person : DuPont Crop Protection, Wilmington, DE, 19898, 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



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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.

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