

# SAFETY DATA SHEET

## B-NINE® WSG

Version	Revision Date:	MSDS Number:	Country: US
1.6	10/07/2015	400000001064	Language: Z8

---

### SECTION 1. IDENTIFICATION

Product name : B-NINE® WSG

Product code : 400000001064

#### Manufacturer or supplier's details

Company: MacDermid Agricultural Solutions, Inc  
245 Freight St  
Waterbury, CT  
United States of America  
06702  
Telephone : +1 800 423 8569

Prepared by sds.request@arysta.com

Further information for the material safety data sheet :  
sds.request@arysta.com

#### 1.4 Emergency telephone

Emergency telephone: Agriphar Crop Solutions: +1 800 423 8569(24 hours) 800-424-9300  
For additional emergency telephone numbers see section 16 of the  
Safety Data Sheet.

#### Recommended use of the chemical and restrictions on use

Recommended use : Plant growth regulator

Restrictions on use : Agriculture, For professional users only.

---

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS Label element

Not a hazardous substance or mixture.

#### Other hazards

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

# SAFETY DATA SHEET

## B-NINE® WSG

Version 1.6      Revision Date: 10/07/2015      MSDS Number: 400000001064      Country: US  
Language: Z8

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

#### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (% w/w)
magnesium carbonate	546-93-0	>= 1 - < 5

### SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.  
If symptoms persist, call a physician.

In case of skin contact : Wash off with warm water and soap.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
If symptoms persist, call a physician.

If swallowed : Do NOT induce vomiting.  
Rinse mouth with water.  
Obtain medical attention.

Most important symptoms and effects, both acute and delayed : Symptoms may be delayed.  
No information available.

Notes to physician : The first aid procedure should be established in consultation  
with the doctor responsible for industrial medicine.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)  
Dry powder  
Foam  
Water mist

Unsuitable extinguishing media : Water spray

Specific hazards during fire fighting : No information available.

Further information : Prevent fire extinguishing water from contaminating surface water  
or the ground water system.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Complete suit protecting against chemicals  
Full protective flameproof clothing

# SAFETY DATA SHEET

## B-NINE® WSG

Version 1.6      Revision Date: 10/07/2015      MSDS Number: 400000001064      Country: US  
Language: Z8

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.  
Remove all sources of ignition.  
Do not breathe dust.  
Avoid contact with skin and eyes.
- Environmental precautions : Do not allow material to contaminate ground water system.  
Do not allow uncontrolled discharge of product into the environment.
- Methods and materials for containment and cleaning up : Do not create a powder cloud by using a brush or compressed air.  
Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing dust.  
Avoid creating dust.  
Remove all sources of ignition.  
Take precautionary measures against static discharges.  
Use only with adequate ventilation.  
Keep container tightly closed.
- Conditions for safe storage : Keep container tightly closed.  
Keep in a well-ventilated place.  
Keep away from heat.  
Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
magnesium carbonate	546-93-0	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total)	15 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL

# SAFETY DATA SHEET

## B-NINE® WSG

Version 1.6      Revision Date: 10/07/2015      MSDS Number: 400000001064      Country: US  
Language: Z8

		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Total dust)	15 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0

### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Respirator with a dust filter

Hand protection

Remarks : PVC or other plastic material gloves Rubber gloves

Eye protection : Safety glasses with side-shields conforming to EN166

Skin and body protection : impervious clothing

Hygiene measures : Wash thoroughly after handling.  
Remove and wash contaminated clothing before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules

Color : white

Odor : odorless

Odor Threshold : No data available

pH : 4, Concentration: 10 g/l

Melting point/range : No data available

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : negligible

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Relative density : No data available

# SAFETY DATA SHEET

## B-NINE® WSG

Version	Revision Date:	MSDS Number:	Country: US
1.6	10/07/2015	400000001064	Language: Z8

---

Density	: 0.40 - 0.50 g/cm3 Method: No information available.
Solubility(ies)	
Water solubility	: completely soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: Not applicable
Self-Accelerating decomposition temperature (SADT)	: Method: No information available.
Oxidizing potential	: No information available.

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Burning produces obnoxious and toxic fumes.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### **Product:**

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 4 mg/l Exposure time: 4 h Test atmosphere: dust/mist

# SAFETY DATA SHEET

## B-NINE® WSG

Version	Revision Date:	MSDS Number:	Country: US
1.6	10/07/2015	400000001064	Language: Z8

---

Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

### Skin corrosion/irritation

#### Product:

Species: Rabbit  
Result: No skin irritation

### Serious eye damage/eye irritation

#### Product:

Species: Rabbit  
Result: No eye irritation

### Respiratory or skin sensitization

#### Product:

Species: Guinea pig  
Result: negative

### Germ cell mutagenicity

#### Product:

Germ cell mutagenicity - Assessment : Based on available data, the classification criteria are not met

### Carcinogenicity

#### Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met

### IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

# SAFETY DATA SHEET

## B-NINE® WSG

Version	Revision Date:	MSDS Number:	Country: US
1.6	10/07/2015	400000001064	Language: Z8

### Reproductive toxicity

#### Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: Based on available data, the classification criteria are not met

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: Based on available data, the classification criteria are not met

Toxicity to algae :  
Remarks: Based on available data, the classification criteria are not met

### Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### Mobility in soil

#### Product:

Mobility : Remarks: No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

# SAFETY DATA SHEET

## B-NINE® WSG

Version 1.6      Revision Date: 10/07/2015      MSDS Number: 400000001064      Country: US  
Language: Z8

This product has no known ecotoxicological effects.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : In accordance with local and national regulations.  
Dispose of wastes in an approved waste disposal facility.
- Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Component RQ (lbs)
unsymmetrical dimethylhydrazine	57-14-7	10	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
unsymmetrical dimethylhydrazine	57-14-7	10	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity



# SAFETY DATA SHEET

## B-NINE® WSG

Version	Revision Date:	MSDS Number:	Country: US
1.6	10/07/2015	400000001064	Language: Z8

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : 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.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**California Prop. 65** WARNING! This product contains a chemical known in the State of California to cause cancer.

daminozide	1596-84-5
dimethylnitrosoamine	62-75-9
N,N-dimethylhydrazine	57-14-7

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### FIFRA Hazard Information:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

The hazard information required on the pesticide label is reproduced below.

# SAFETY DATA SHEET

## B-NINE® WSG

Version	Revision Date:	MSDS Number:	Country: US
1.6	10/07/2015	400000001064	Language: Z8

---

### CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing.

Do not contaminate water when disposing of equipment washwaters

Do not use or store near heat or open flame.

---

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

# SAFETY DATA SHEET

## B-NINE® WSG

Version  
1.6

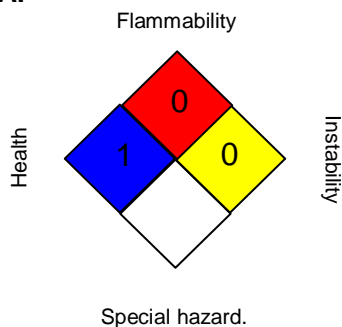
Revision Date:  
10/07/2015

MSDS Number:  
400000001064

Country: US  
Language: Z8

### Further information

#### NFPA:



#### HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 10/07/2015

The information provided in this Material 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.

US / Z8

### Carechem24 International Worldwide Coverage

#### Emergency Phone Number

Europe:	All European Countries	+44 (0) 1235 239 670
Asia Pacific:	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China	+86 532 8388 9090
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285 +82 (0)234 798 401
	Vietnam	+65 3158 1255
	India	+65 3158 1198 0800 100 7479

# SAFETY DATA SHEET

## B-NINE® WSG

Version  
1.6

Revision Date:  
10/07/2015

MSDS Number:  
400000001064

Country: US  
Language: Z8

---

	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Emergency Phone Number	+65 3158 1200
<u>Middle East / Africa:</u>	Arabic speaking countries	+44 (0) 1235 239 671
	South Africa	+27 21 300 2732
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States of America and Canada	+1866 928 0789 +1 215 207 0061
<u>Latin America:</u>	Brazil	+55 113 711 9144
	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670