

Material Safety Data Sheet

CASORON® G-4 GRANULAR HERBICIDE

Version 1.9 Revision Date: 24.09.2015 MSDS Number: 400000000957 Country: CA
Language: EN

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 400000000957
Product code : 400000000957
Chemical nature : Mixture

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 safety data sheet :
sds.request@arysta.com

1.4 Emergency telephone number

Emergency telephone number: 613-996-6666 (call collect) (CANUTEC)
For additional emergency telephone numbers see section 16 of the
Safety Data Sheet.

Recommended use : Herbicide
Restrictions on use : Agriculture, For professional users only.

Prepared by :
sds.request@arysta.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	granular
Colour	grey
Odour	aromatic

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Hazard Summary	Harmful to aquatic life with long lasting effects. 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.
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WHMIS Regulatory status : This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

Potential Health Effects

Inhalation : Occupational health effects due to inhalation of mineral dusts incorporating crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc) graphite or coal.

Skin : Contact with dust can cause mechanical irritation or drying of the skin.

Eyes : Dust contact with the eyes can lead to mechanical irritation.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : irritant effects

Carcinogenicity:

IARC

Group 1: Carcinogenic to humans

kaolin 1332-58-7

Group 2B: Possibly carcinogenic to humans

titanium dioxide 13463-67-7

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
silicon dioxide	7631-86-9	>= 50 - < 70
aluminium oxide	1344-28-1	>= 10 - < 20
dichlobenil	1194-65-6	>= 1 - < 5
diiron trioxide	1309-37-1	>= 1 - < 5
magnesium oxide	1309-48-4	>= 1 - < 5

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calcium oxide	1305-78-8	>= 1 - < 5
kaolin	1332-58-7	>= 0.1 - < 1
titanium dioxide	13463-67-7	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air.
If not breathing, give artificial respiration.
Obtain medical attention.
- In case of skin contact : Wash off with warm water and soap.
Remove contaminated clothing and shoes.
Wash clothing before reuse.
If symptoms persist, call a physician.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water
for at least 15 minutes.
Obtain medical attention.
- If swallowed : If victim is fully conscious, give a cupful of water.
Do not induce vomiting without medical advice.
Get medical attention immediately.
Do not give milk, alcoholic beverages or castor oil.
- Notes to physician : The first aid procedure should be established in consultation
with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Foam
- water fog
- Unsuitable extinguishing media : Water spray
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circum-
stances and the surrounding environment.
- Further information : Do not discharge extinguishing waters into streams, rivers and lakes.
- Special protective equipment for firefighters : Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus (EN 133)

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency pro-
cedures : Wear suitable protective equipment.

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Environmental precautions : Prevent leaks and prevent soil / water pollution caused by leaks.
May be harmful to aquatic life.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid dust formation.
Use only with adequate ventilation.

Conditions for safe storage : Keep in a dry, cool place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
aluminium oxide	1344-28-1	TWA	10 mg/m ³	CA AB OEL
		TWAEV	10 mg/m ³	CA ON OEL
		TWAEV (Total)	10 mg/m ³	CA ON OEL
		TWAEV (total dust)	10 mg/m ³ (Aluminium)	CA QC OEL
		TWA (Respirable)	1 mg/m ³ (Aluminium)	CA BC OEL
diiron trioxide	1309-37-1	TWA (Respirable fraction)	1 mg/m ³ (Aluminium)	ACGIH
		TWAEV (Respirable)	5 mg/m ³	CA ON OEL
		TWA	5 mg/m ³ (As Fe)	CA AB OEL
		TWA (Respirable)	5 mg/m ³	CA AB OEL
		TWA (Fumes)	5 mg/m ³ (Iron)	CA BC OEL
		TWA (Dust)	5 mg/m ³ (Iron)	CA BC OEL
		STEL (Fumes)	10 mg/m ³ (Iron)	CA BC OEL
		TWAEV (fume and dust)	5 mg/m ³ (Iron)	CA QC OEL
magnesium oxide	1309-48-4	TWA (Respirable fraction)	5 mg/m ³	ACGIH
		TWAEV (Inhalable)	10 mg/m ³	CA ON OEL
		TWA (Fumes)	10 mg/m ³	CA AB OEL
		TWA (Inhal-)	10 mg/m ³	CA BC OEL

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		able fume)	(Magnesium)	
		TWA (Respirable dust and fume)	3 mg/m3 (Magnesium)	CA BC OEL
		STEL (Respirable dust and fume)	10 mg/m3 (Magnesium)	CA BC OEL
		TWAEV (Fumes)	10 mg/m3 (Magnesium)	CA QC OEL
		TWA (Inhalable fraction)	10 mg/m3	ACGIH
calcium oxide	1305-78-8	TWA	2 mg/m3	CA AB OEL
		TWA	2 mg/m3	CA BC OEL
		TWAEV	2 mg/m3	CA ON OEL
		TWAEV	2 mg/m3	CA QC OEL
		TWA	2 mg/m3	ACGIH
kaolin	1332-58-7	TWA (Respirable)	2 mg/m3	CA BC OEL
		TWAEV (Respirable)	2 mg/m3	CA ON OEL
		TWA (Respirable)	2 mg/m3	CA AB OEL
		TWAEV (respirable dust)	5 mg/m3	CA QC OEL
		TWA (Respirable fraction)	2 mg/m3	ACGIH

Personal protective equipment

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

Hand protection

Remarks : Impervious gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Preventive skin protection

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granular

Colour : grey

Odour : aromatic

Odour Threshold : No data available

pH : Not applicable

Melting point/range : No data available

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Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : No data available

Solubility(ies)

 Water solubility : No data available

 Solubility in other solvents : slightly soluble

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

Auto-ignition temperature : > 400 °C

Decomposition temperature : No data available

Viscosity

 Viscosity, dynamic : Not applicable

 Viscosity, kinematic : Not applicable

Self-Accelerating decomposition temperature (SADT) : Method: No information available.

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Incompatible materials : Oxidizing agents
Strong acids and strong bases

Hazardous decomposition products : Burning produces noxious and toxic fumes.

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : Remarks: Not applicable
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Components:

silicon dioxide:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
GLP: no

aluminium oxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

dichlobenil:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

diiron trioxide:

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

calcium oxide:

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg

kaolin:

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

titanium dioxide:

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 6.8 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

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Skin corrosion/irritation

Product:

Species: Rabbit
Assessment: No skin irritation

Components:

silicon dioxide:

Method: OECD Test Guideline 404
Result: No skin irritation

aluminium oxide:

Species: Rabbit
Method: OECD-Guideline No. 404
Result: No skin irritation

dichlobenil:

Assessment: No skin irritation

magnesium oxide:

Species: Humans
Result: No skin irritation

calcium oxide:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

titanium dioxide:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit
Assessment: No eye irritation

Components:

silicon dioxide:

Result: No eye irritation

aluminium oxide:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

dichlobenil:

Assessment: No eye irritation

magnesium oxide:

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Result: Eye irritation

calcium oxide:

Result: Risk of serious damage to eyes.

titanium dioxide:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Product:

Remarks: Non sensitizing.

Components:

silicon dioxide:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

dichlobenil:

Result: Did not cause sensitisation on laboratory animals.

diiron trioxide:

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

calcium oxide:

Species: Human

Assessment: Did not cause sensitisation on laboratory animals.

titanium dioxide:

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Components:

silicon dioxide:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
GLP: no

: Test Type: Unscheduled DNA synthesis (UDS)
Result: negative

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- Genotoxicity in vivo : Test Type: in vivo assay
Species: Rat (male)
Application Route: Oral
Result: negative
GLP: no
- Genotoxicity in vivo : Test Type: in vivo assay
Species: Rat (male and female)
Application Route: Oral
Result: negative
GLP: no
- Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.
- aluminium oxide:**
Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
- Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects
- dichlobenil:**
Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.
- diiron trioxide:**
Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
- calcium oxide:**
Genotoxicity in vitro : Test Type: In Vitro mammalian Cell Gene Mutation Test
Result: negative
- Genotoxicity in vitro : Test Type: in vitro assay
Metabolic activation: with and without metabolic activation
Result: negative
- Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative
- Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects
- titanium dioxide:**
Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

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: Test Type: Unscheduled DNA synthesis (UDS)
Result: negative

: Test Type: in vitro assay
Metabolic activation: with and without metabolic activation
Result: negative

: Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay
Species: Rat (female)
Application Route: Oral
Result: negative

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

Components:

silicon dioxide:

Species: Rat, (male and female)
Application Route: Oral

Species: Mouse, (male and female)
Application Route: Oral

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

dichlobenil:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

diiron trioxide:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

titanium dioxide:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

: Group 2B: Possibly carcinogenic to humans

Reproductive toxicity

Product:

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

Components:

silicon dioxide:

Reproductive toxicity - Assessment : No toxicity to reproduction
No effects on or via lactation

calcium oxide:

Reproductive toxicity - Assessment : No toxicity to reproduction
No effects on or via lactation

STOT - single exposure

Components:

calcium oxide:

Exposure routes: Inhalation
Assessment: May cause respiratory irritation.

STOT - repeated exposure

Components:

diiron trioxide:

Exposure routes: Oral
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

titanium dioxide:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

silicon dioxide:

Species: Rat, male and female
NOAEL: < 0.001 mg/kg
Application Route: Inhalation
Exposure time: 13 weeks
GLP: yes

Species: Rat, male
Application Route: Inhalation
Target Organs: Lungs

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50: 317 mg/l
Exposure time: 96 h

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 155 mg/l
Exposure time: 48 h

Toxicity to algae : IC50 (Pseudokirchneriella subcapitata (green algae)): 50 mg/l
Exposure time: 72 h

Components:

silicon dioxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 5,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5,000 mg/l
Exposure time: 24 h

Toxicity to algae : EC50 (Chlorella pyrenoidosa (aglae)): 440 mg/l
Exposure time: 72 h

calcium oxide:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 1,070 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50: 159.6 mg/l
Exposure time: 24 h

kaolin:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 1,100 mg/l
Exposure time: 48 h

titanium dioxide:

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): 1,000 mg/l
Exposure time: 48 h
Test Type: static test

LC50 (Cyprinodon variegatus (sheepshead minnow)): 240 - 370 mg/l
Exposure time: 96 h

Persistence and degradability

Components:

silicon dioxide:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

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Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of waste product or used containers according to local regulations.
The product should not be allowed to enter drains, water courses or the soil.

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.

National Regulations

TDG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : NC: Not controlled.
This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

NPRI Components : aluminium oxide
methanol

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canadian lists

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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; 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; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

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.

CA / EN

Carechem24 International Worldwide Coverage

Emergency Phone Number

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<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670 (NCEC)
<u>Asia Pacific:</u>	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
	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