

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

SECTION 1. IDENTIFICATION

Product name : CASORON® 4G

Product code : 400000000957

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: 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 : Herbicide

Restrictions on use : Agriculture, For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Chronic aquatic toxicity : Category 3

GHS Label element

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.

SAFETY DATA SHEET

CASORON® 4G

Version 1.12 Revision Date: 10/27/2015 MSDS Number: 400000000957 Country: US
Language: EN

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Dichlobenil - 4%

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
diron trioxide	1309-37-1	≥ 1 - < 5
magnesium oxide	1309-48-4	≥ 1 - < 5
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 : Move to fresh air.
Give oxygen or artificial respiration if needed.
Obtain medical attention.

In case of skin contact : Wash off with soap and water.
Remove contaminated clothing and shoes.
Wash contaminated clothing before re-use.
If symptoms persist, call a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes
and consult a physician.

If swallowed : Call a physician or poison control centre immediately.
Do not induce vomiting unless told to do so by the poison control center or doctor.
If swallowed
Drink 1 or 2 glasses of water.
Never give anything by mouth to an unconscious person.
Do not give milk, alcoholic beverages or castor oil.

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

Notes to physician : The first aid procedure should be established in consultation

SAFETY DATA SHEET

CASORON® 4G

Version 1.12 Revision Date: 10/27/2015 MSDS Number: 400000000957 Country: US
Language: EN

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 circumstances 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 procedures : Wear suitable protective equipment.
- 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
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m ³ / %SiO ₂	OSHA Z-3

SAFETY DATA SHEET

CASORON® 4G

Version
1.12Revision Date:
10/27/2015MSDS Number:
400000000957Country: US
Language: EN

			(Silica)	
		TWA	6 mg/m3 (Silica)	NIOSH REL
aluminium oxide	1344-28-1	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH
diiron trioxide	1309-37-1	TWA (Respirable fraction)	5 mg/m3	ACGIH
		TWA (Fumes)	10 mg/m3	OSHA Z-1
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Fumes)	10 mg/m3	OSHA P0
		TWA (dust and fume)	5 mg/m3 (Iron)	NIOSH REL
magnesium oxide	1309-48-4	TWA (Inhalable fraction)	10 mg/m3	ACGIH
		TWA (fume, total particulate)	15 mg/m3	OSHA Z-1
		TWA (Fume - total particulate)	10 mg/m3	OSHA P0
calcium oxide	1305-78-8	TWA	2 mg/m3	ACGIH
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
		TWA	2 mg/m3	NIOSH REL
kaolin	1332-58-7	TWA (Respirable fraction)	2 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
titanium dioxide	13463-67-7	TWA	10 mg/m3	ACGIH
		TWA (total)	15 mg/m3	OSHA Z-1

SAFETY DATA SHEET

CASORON® 4G

Version 1.12 Revision Date: 10/27/2015 MSDS Number: 400000000957 Country: US
Language: EN

		dust)		
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

Hazardous components without workplace control parameters

Components	CAS-No.
dichlobenil	1194-65-6

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

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

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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.

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

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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

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

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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:

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.

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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

Genotoxicity in vivo : Test Type: in vivo assay
Species: Rat (male)
Application Route: Oral
Result: negative
GLP: no

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

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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

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

: 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

: 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:

SAFETY DATA SHEET

CASORON® 4G

Version 1.12	Revision Date: 10/27/2015	MSDS Number: 400000000957	Country: US Language: EN
-----------------	------------------------------	------------------------------	-----------------------------

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.

: Limited evidence of carcinogenicity in animal studies, Tumors were noticed after prolonged inhalation toxicity testing on rats., Considered carcinogenic to animals in certain countries.

IARC

Group 1: Carcinogenic to humans

kaolin 1332-58-7

Group 2B: Possibly carcinogenic to humans

titanium dioxide 13463-67-7

OSHA

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

NTP

Known to be human carcinogen

kaolin 1332-58-7

Reproductive toxicity

Product:

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

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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

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

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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 : EC50 (Daphnia magna (Water flea)): > 5,000 mg/l
aquatic invertebrates 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 : EC50: 159.6 mg/l
aquatic invertebrates Exposure time: 24 h

kaolin:

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

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

SAFETY DATA SHEET

CASORON® 4G

Version 1.12 Revision Date: 10/27/2015 MSDS Number: 400000000957 Country: US
Language: EN

tection 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).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of waste in accordance with environmental legislation. 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

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Component RQ (lbs)
dichlobenil	1194-65-6	100	2394

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

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

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

dichlobenil	1194-65-6	4.1777 %
-------------	-----------	----------

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

dichlobenil	1194-65-6	4.1777 %
-------------	-----------	----------

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 to the State of California to cause cancer.

kaolin	1332-58-7
titanium dioxide	13463-67-7
quartz (SiO ₂)	14808-60-7

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

methanol	67-56-1
----------	---------

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.

CAUTION

Causes moderate eye irritation. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid breathing dust.

SAFETY DATA SHEET

CASORON® 4G

Version	Revision Date:	MSDS Number:	Country: US
1.12	10/27/2015	400000000957	Language: EN

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 disposing of equipment washwater or rinsate. This chemical has properties and characteristics associated with chemicals detected in ground-water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

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

CASORON® 4G

Version
1.12

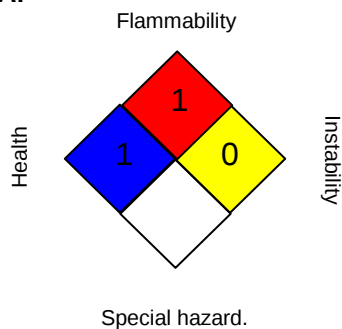
Revision Date:
10/27/2015

MSDS Number:
400000000957

Country: US
Language: EN

Further information

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

Revision Date : 10/27/2015

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.

US / EN

Carechem24 International Worldwide Coverage

Emergency Phone Number

<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

SAFETY DATA SHEET

CASORON® 4G

Version
1.12

Revision Date:
10/27/2015

MSDS Number:
400000000957

Country: US
Language: EN

	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 11 3197 5891
	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670