



Safety Data Sheet White impregnator for broadleaf



Safety Data Sheet dated 11/3/2017, version 3

1. IDENTIFICATION

Product identifier
Mixture identification:
Trade name: White impregnator for broadleaf
Other means of identification:
Trade code: 6IMW4430
Recommended use of the chemical and restrictions on use
Recommended use: Surface coating
Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party
Company:
Sirca S.p.A.
Address:
Viale Roma, 85
35010 S. Dono di Massanzago (PD) - ITALY
Tel. +39 0499322311
Distributed by:
GEMINI INDUSTRIES, INC.
2300 Holloway Drive
El Reno, OK 73036
USA
Tel. 1-800-262-5710
Fax 1-405-262-9310
www.gemini-coatings.com
Competent person responsible for the safety data sheet:
safety@sirca.it
Emergency phone number
For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
1-800-424-9300 / +1 703-527-3887.

2. HAZARD(S) IDENTIFICATION

Classification of the chemical
 Warning, Skin Sens. 1, May cause an allergic skin reaction.
 Warning, Carc. 2, Suspected of causing cancer.
Aquatic Acute 3, Harmful to aquatic life.

Label elements
Hazard pictograms:



Warning

Hazard statements:
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H402 Harmful to aquatic life.
Precautionary statements:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

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P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None

Additional classification information

NFPA rating:



HMIS rating:

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances


N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:


>= 9.9% - < 12.5% Titanium dioxide

REACH No.: 01-2119489379-17-xxxx, CAS: 13463-67-7, EC: 236-675-5

 A.6/2 Carc. 2 H351

>= 2% - < 2.5% alcohols C9-C11ethoxylate, propoxylate (polymers)


CAS: Reserved

 A.1/4/Oral Acute Tox. 4 H302


 A.3/2A Eye Irrit. 2A H319

>= 0.2% - < 0.25% 3-Iodo-2-propynylbutylcarbamate

Index number: 616-212-00-7, CAS: 55406-53-6, EC: 259-627-5

 A.1/4/Inhal Acute Tox. 4 H332

 A.8/3 STOT SE 3 H335

 A.1/4/Oral Acute Tox. 4 H302

 A.3/1 Eye Dam. 1 H318

 A.4.2/1 Skin Sens. 1 H317

 US-HAE/A1 Aquatic Acute 1 H400

4. FIRST-AID MEASURES

Description of necessary measures



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- In case of skin contact:
Immediately take off all contaminated clothing.
Remove contaminated clothing immediately and dispose off safely.
- In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of Ingestion:
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
- In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
- Most important symptoms/effects, acute and delayed
None
- Indication of immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
- Treatment:
None

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media:
Water.
Carbon dioxide (CO2).
- Unsuitable extinguishing media:
None in particular.
- Specific hazards arising from the chemical
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
- Hazardous combustion products:
None
- Explosive properties: N.A.
Oxidizing properties: N.A.
- Special protective equipment and precautions for fire-fighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment, and emergency procedures
Wear personal protection equipment.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Remove persons to safety.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.
- Methods and materials for containment and cleaning up
Wash with plenty of water.

7. HANDLING AND STORAGE

- Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Exercise the greatest care when handling or opening the container.
Do not use on extensive surface areas in premises where there are occupants.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
Storage temperature:
Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Control parameters
No occupational exposure limit available
- DNEL Exposure Limit Values
Titanium dioxide - CAS: 13463-67-7



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Worker Industry: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 700 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Titanium dioxide - CAS: 13463-67-7

Target: Fresh Water - Value: 0.127 mg/l

Target: Marine water - Value: 0.127 mg/l

Target: Soil (agricultural) - Value: 100 mg/kg

Target: Marine water sediments - Value: 100 mg/kg - Notes:: dry

Target: Freshwater sediments - Value: 1000 mg/kg - Notes:: dry

Target: Soil (agricultural) - Value: 100 mg/kg - Notes:: alimento

Target: orally (secondary poisoning) - Value: 1667 mg/kg

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	liquid
Odour:	characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	< 1° C
Initial boiling point and boiling range:	> 55° C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	>=93°C (>= 199°F)
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1.1100 Kg/l a 20°C
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250° C
Decomposition temperature:	N.A.
Viscosity (typical value):	55.00 " Din cup # 2
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction is stored and used appropriately.
Conditions to avoid	Stable under normal conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Toxicological information of the product:	N.A.

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Toxicological information of the main substances found in the product:

Titanium dioxide - CAS: 13463-67-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 6.82 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

b) skin corrosion/irritation:

Test: Eye Irritant - Species: Rabbit No

Test: Skin Irritant - Species: Rabbit No

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: Mouse No

i) STOT-repeated exposure:

Test: NOAEL - Species: Rat 3500 mg/kg/day - Source: polmoni

alcohols C9-C11ethoxylate, propoxylate (polymers) - CAS: Reserved

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 500 mg/kg

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

3-Iodo-2-propynylbutylcarbamate - CAS: 55406-53-6

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 1470 mg/kg

Test: LD50 - Route: Oral - Species: Rat Female = 1056 mg/kg

Test: LD50 - Route: Oral - Species: Rat male = 1795 mg/kg

b) skin corrosion/irritation:

Test: Eye Irritant - Species: Rabbit Yes

Test: Skin Irritant - Species: Rabbit Yes

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: Cavia porcellus Yes

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Generic Bacteria Negative

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

Titanium dioxide - Group 2B.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Titanium dioxide - CAS: 13463-67-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 61 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48

alcohols C9-C11ethoxylate, propoxylate (polymers) - CAS: Reserved

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 17.7 mg/l - Duration h: 48 - Notes: OECD - linea guida 202, parte1, statico

3-Iodo-2-propynylbutylcarbamate - CAS: 55406-53-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 0.16 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.022 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 0.067 mg/l - Duration h: 96

Endpoint: NOEC - Species: Algae 0.0046 mg/l - Duration h: 72

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.



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14. TRANSPORT INFORMATION

UN number
Not classified as dangerous within the meaning of transport regulations.

UN proper shipping name
N.A.

Transport hazard class(es)
N.A.

Packing group
N.A.

Environmental hazards
ADR-Environmental pollutant: No
IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
No

Special precautions
N.A.

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act
TSCA inventory: all the components are listed on the TSCA inventory.
TSCA listed substances:
None.

SARA - Superfund Amendments and Reauthorization Act
Section 302 – Extremely Hazardous Substances: no substances listed.
Section 304 – Hazardous substances: no substances listed.
Section 313 – Toxic chemical list: 3-Iodo-2-propynylbutylcarbamate.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
No substances listed.

CAA - Clean Air Act
CAA listed substances:
None.

CWA - Clean Water Act
CWA listed substances:
3-Iodo-2-propynylbutylcarbamate is listed in CWA Section 304.

USA - State specific regulations

California Proposition 65
Substance(s) listed under California Proposition 65:
None.

Massachusetts Right to know
Substance(s) listed under Massachusetts Right to know:
Titanium dioxide.

New Jersey Right to know
Substance(s) listed under New Jersey Right to know:
Titanium dioxide
3-Iodo-2-propynylbutylcarbamate.

Pennsylvania Right to know
Substance(s) listed under Pennsylvania Right to know:
Titanium dioxide.

16. OTHER INFORMATION

Text of phrases referred to under heading 3:
H351 Suspected of causing cancer.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.

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Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.



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ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average