



Safety Data Sheet Impregnator for broadleaf

Safety Data Sheet dated 3/29/2018, version 3

1. IDENTIFICATION	
Product identif	
	re identification:
	name: Impregnator for broadleaf
	means of identification:
	e code: 6IMW9400
Recommended	d use of the chemical and restrictions on use
Reco	mmended use:Surface coating
Restr	ictions on use:
	s, and telephone number of the chemical manufacturer, importer, or other responsible party
Comp	
	S.p.A.
Address:	Roma, 85
) S.Dono di Massanzago (PD) - ITALY
	39 049322311
Distributed by:	
	INI INDUSTRIES, INC.
	Holloway Drive
	no, OK 73036
USA	
	-800-262-5710
	-405-262-9310
www.	gemini-coatings.com
o	
	rson responsible for the safety data sheet:
Emergency ph	/@sirca.it
	azardous Materials [or Dangerous Goods] Incident
	Leak, Fire, Exposure, or Accident
	CHEMTREC Day or Night
)-424-9300 / +1 703-527-3887.
2. HAZARD(S) IDEN	ITIFICATION
Classification	of the chemical
Ciassilication	
	Warning, Eye Irrit. 2A, Causes serious eye irritation.
	Warning, Eye Irrit. 2A, Causes serious eye irritation.
	Warning, Eye Irrit. 2A, Causes serious eye irritation. Warning, Skin Sens. 1, May cause an allergic skin reaction.
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♦♦	Warning, Skin Sens. 1, May cause an allergic skin reaction.
♦♦	Warning, Skin Sens. 1, May cause an allergic skin reaction. atic Acute 2, Toxic to aquatic life.
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Label element: Hazard pictogr	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. s ams: ing ents: Causes serious eye irritation.
Aqu Label element: Hazard pictogr Hazard statem Hazard statem H319 H317	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. s ams: ing ents: Causes serious eye irritation. May cause an allergic skin reaction.
Aqu Label element: Hazard pictogr Warm Hazard statem H319 H317 H317 H401	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. ams: ams: ams: ams: ams: causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life.
Aqu Label element: Hazard pictogr Warn Hazard statem H319 H317 H401 Precautionary	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. ams:
Aque Label elements Hazard pictogr Hazard statem H319 H317 H401 Precautionary P261	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. ams: ams: ams: ams: ams: causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life.
Aqu Label element: Hazard pictogr Hazard statem H319 H317 H401 Precautionary P261 P264	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. s ams:
Aqu Label element: Hazard pictogr Hazard statem H319 H317 H401 Precautionary P261 P272 P273	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. ams:
Aque Label elements Hazard pictogr Hazard statem Hazard statem H319 H317 H401 Precautionary P261 P264 P273 P280	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. s ams: ents: Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life. statements: Avoid breathing dust/fume/gas/mist/vapours/spray. Wash your face, hands and every exposed part thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Aque Label elements Hazard pictogr Hazard statem Hazard statem H319 H317 H401 Precautionary P261 P264 P273 P280	Warning, Skin Sens. 1, May cause an allergic skin reaction. uatic Acute 2, Toxic to aquatic life. ams:

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- 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



3. COMPOSITION/INFORMATION ON INGREDIENTS Substances N.A.
Mixtures Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:
>= 3% - < 5% 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve REACH No.: 01-2119475108-36-xxxx, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0
A.3/2A Eye Irrit. 2A H319
A.2/2 Skin Irrit. 2 H315
A.1/4/Oral Acute Tox. 4 H302
A.1/4/Dermal Acute Tox. 4 H312
A.1/4/Inhal Acute Tox. 4 H332
>= 2% - < 2.5% 4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl REACH No.: 01-2119968566-20-xxxx, CAS: 2226-96-2, EC: 218-760-9
A.1/4/Oral Acute Tox. 4 H302
A.3/1 Eye Dam. 1 H318

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US-HAE/C3 Aquatic Chronic 3 H412

 >= 0.25% - < 0.5% 3-lodo-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 In case of skin contact: Immediately take off all contaminated clothing. Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with soap and plenty of water. In case of eyes contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately. Protect uninjured eye. 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.

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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. 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. Contamined 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

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

- (OEL (IT)) TWA(8h): 98 mg/m3, 20 ppm STEL: 246 mg/m3, 50 ppm Behaviour: Binding Notes: pelle EU TWA(8h): 98 mg/m3, 20 ppm STEL: 246 mg/m3, 50 ppm Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr MAK - TWA(8h): 49 mg/m3, 10 ppm - STEL: 246 mg/m3, 50 ppm - Notes: Skin DNEL Exposure Limit Values

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

Worker Industry: 89 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects Worker Industry: 135 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects Worker Industry: 135 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects Worker Industry: 75 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects Worker Industry: 20 ppm - Exposure: Human Dermal - Frequency: Long Term, systemic effects Exposure: Human Oral - Frequency: Short Term, systemic effects Exposure: Human Oral - Frequency: Long Term, systemic effects Consumer: 44.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects Consumer: 426 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects Consumer: 123 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects Consumer: 38 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects Consumer: 49 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 13.4 mg/m3 - Exposure: Human Oral - Frequency: Short Term, systemic effects Consumer: 3.2 mg/m3 - Exposure: Human Oral - Frequency: Long Term, systemic effects 4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl - CAS: 2226-96-2 Worker Industry: 1.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Industry: 0.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Industry: 8 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects Consumer: 0.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects Consumer: 0.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects Consumer: 4 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects Consumer: 7 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects PNEC Exposure Limit Values 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2 Target: Fresh Water - Value: 8.8 mg/l Target: Marine water - Value: 0.88 mg/l Target: Microorganisms in sewage treatments - Value: 463 mg/l Target: Freshwater sediments - Value: 34.6 mg/kg Target: Marine water sediments - Value: 3.46 mg/kg Target: Soil (agricultural) - Value: 2.8 mg/l Target: STP - Value: 463 mg/l 4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl - CAS: 2226-96-2 Target: Marine water - Value: 0.03 mg/l Target: Occasional emission - Value: 0.54 mg/l Target: Freshwater sediments - Value: 0.126 mg/kg Target: Marine water sediments - Value: 0.0169 mg/kg

- Target: Soil (agricultural) Value: 0.031 mg/kg
- Target: Microorganisms in sewage treatments Value: 430 mg/l

Appropriate engineering controls:

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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:	1.0150 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):	50.00 " 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. Toxicological information of the main substances found in the product: 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat 470 mg/kg Test: LD50 - Route: Skin - Species: Ratbit 220 mg/kg Test: LC50 - Route: Inhalation Vapour - Species: Rat male 2.4 mg/l - Duration: 4h Test: LD50 - Route: Skin - Species: Rat 220 mg/kg b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabbit Yes - Notes: Provoca irritazione cutanea Test: Eyel riritant - Species: Rabbit Yes - Notes: provoca grave irritazione oculare 4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl - CAS: 2226-96-2 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 1053 mg/kg - Notes: (OECD - Guide line 401)



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Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg b) skin corrosion/irritation: Test: Skin Corrosive - Species: Rabbit Negative - Notes: (OECD - Guide Line 404) c) serious eye damage/irritation: Test: Eye Corrosive - Species: Rabbit Positive - Notes: (OECD - Guide Line 405) d) respiratory or skin sensitisation: Test: Skin Sensitization - Species: Cavia porcellus Negative - Notes: (OECD - Guide Line 406) Test: Inhalation Sesitization - Species: Cavia porcellus Negative - Notes: (OECD - Guide Line 406) 3-lodo-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: 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - Group 3.

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.		
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2		
a) Aquatic acute toxicity:		
Endpoint: LC50 - Species: Fish = 1490 mg/l - Duration h: 96		
Endpoint: EC50 - Species: Daphnia = 1000 mg/l - Duration h: 24		
c) Bacteria toxicity:		
Endpoint: EC50 - Species: Active mud > 700 mg/l - Duration h: 16		
4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl - CAS: 2226-96-2		
a) Aquatic acute toxicity:		
Endpoint: LC50 - Species: Fish = 545 mg/l - Notes: (OECD - Guide Line 203)		
Endpoint: EC50 - Species: Daphnia = 54 mg/l		
Endpoint: EC50 - Species: Algae = 1038 mg/l - Duration h: 72		
Endpoint: CE10 - Species: Algae = 125 mg/l - Duration h: 72		
b) Aquatic chronic toxicity:		
Endpoint: NOEC - Species: Daphnia 1.5 ml/l - Notes: (OECD - Guide line 203 - part 2)		
f) Effects in sewage plants:		
Endpoint: CE10 - Species: Active mud = 430 mg/l		
3-lodo-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. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION



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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: 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve is listed in TSCA Section 4, Section 12b. 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-lodo-2-propynylbutylcarbamate. CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve is listed in CAA Section 111, Section 112(b) - HAP. CWA - Clean Water Act CWA listed substances: 3-lodo-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: 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve. New Jersey Right to know Substance(s) listed under New Jersey Right to know: 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve 3-lodo-2-propynylbutylcarbamate. Pennsylvania Right to know Substance(s) listed under Pennsylvania Right to know: 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve.

16. OTHER INFORMATION

Text of phrases referred to under heading 3:

- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H318 Causes serious eye damage.
- H412 Harmful to aquatic life with long lasting effects.
- H335 May cause respiratory irritation. H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.

Safety Data Sheet dated 3/29/2018, version 3 Sections modified from the previous revision:

> 3. COMPOSITION/INFORMATION ON INGREDIENTS 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Disclaimer

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Impregnator for broadleaf 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.

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