Safety Data Sheet
CIL Restore All Condition Grass Seed

1. Identification

Product identifier	CIL Restore All Condition Grass Seed
Product code	2339010, 2339020, 2339040
Other means of identification	
Recommended use of the chemical and restrictions on use	Grass Seed.
Manufacturer	Premier Tech Home & Garden Inc 1, avenue Premier Rivière-du-Loup (Quebec) G5R 6C1 CANADA Tel. (418) 863-7878 www.pthomeandgarden.com
Emergency phone number	1-800-268-2806

2. Hazard identification

Summary	Avoid contact with eyes. Do not ingest. If medical advice is needed, have this SDS or label at hand. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.

WHMIS 2015/GHS/OSHA HCS 2012

Not Regulated under WHMIS 2015/GHS

P103: Read label before use.

3. Composition/information on ingredients

Common name	CAS	Weight % content
Zinc Oxide	1314-13-2	0.1 - 1 %
Manganese carbonate	598-62-9	0.1 - 1 %
Iron(III) trioxide	1309-37-1	0.1 - 1 %
Copper chloride hydroxide (Cu2Cl(OH)3)	1332-65-6	0.1 - 1 %

Note: The manufacturer withholds the actual concentration range of the ingredients as a trade secret. This product is not regulated by WHMIS 2015 (Hazardous Products Regulations) and by OSHA 29 CFR 1910.1200 (OSHA HCS 2012). Components not listed are not hazardous or are below reportable limits.

4. First-aid measures

Inhalation	Move person to fresh air.
Skin contact	Wash skin with warm water and mild soap. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
Eye contact	Flush with water for at least 15 minutes. Remove contact lenses if easy to do. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.

Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink. Never give anything by mouth if victim is unconscious or convulsing. If a problem develops or persists, seek medical attention.
Other	No additional information.
Symptoms	Direct contact with eyes may cause temporary irritation.
Notes to the physician	Apply a symptomatic and supportive treatment.

5. Fire-fighting measures

Suitable extinguishing media	Use an extinguishing agent appropriate for the surrounding fire.
Specific hazards arising from the chemical	No hazard listed.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask.
Special protective actions for fire-fighters	No additional information.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
Environmental precautions	Prevent product from entering drains and release to the environment.
Methods and materials for containment and cleaning up	Ventilate the area well. Scrape and shovel the residue and place in a suitable container.

7. Handling and storage

Precautions for safe handling	Use in well ventilated area. Avoid contact with eyes. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place. Keep away from food and drink. Keep away from moisture.
Storage temperature	<50°C (122°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	Zinc oxide: 500 mg/m3. Manganese carbonate: 500 mg/m3, value as manganese. Iron (III) Oxide: 2500 mg/m3, value as iron. Copper chloride hydroxide: 100 mg/m3, value as copper.

Zinc Oxide	STEL	Respirable Dust	10 mg/m^3	ACGIH , BC, ON, RSST
	TWA (8h)	Respirable Dust	2 mg/m^3	ACGIH , BC, ON, RSST
Iron(III) trioxide	TWA (8h)	Respirable Dust	5 mg/m^3	ACGIH , BC, ON, RSST
Copper chloride hydroxide (Cu2Cl(OH)3)	TWA (8h)	Value as Metal	1 mg/m^3	ACGIH , BC, ON, RSST

Manganese carbonate	Ceiling	Value as Metal	5 mg/m^3	OSHA
	TWA (8h)	Respirable Dust	0.02 mg/m^3	ACGIH , BC, BC
		Inhalable Fraction	0.1 mg/m^3	ACGIH
		Value as Metal	0.2 mg/m^3	ON , RSST
		Value as Metal	1 mg/m^3	OSHA

Appropriate engineering controls	Provide sufficient mechanical (general and/or local exhaust) to keep the airborn concentrations of dust below their respective occupational exposure limits.
Individual protection measures	
Eye	In the workplace, wear safety glasses with side shields. However, goggles are recommended if the product is used in such a way as to generate high dust levels.
Hands	Not required in normal use. Wear cotton, leather, or gardening gloves.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. If necessary, wear an apron or long-sleeve protective coverall suit.
Respiratory	Respiratory protection is not required for normal use.
Feet	Not required in normal use.

Safety glasses

9. Physical and chemical properties

Physical state	Solid	**Flammability**	Non-flammable
Colour	Brownish	**Flammability limits**	N/Ap.
Odour	Dry grass	**Flash point**	N/Ap.
Odour threshold	N/Av.	**Auto-ignition temperature**	N/Av.
pH	Und.	**Sensibility to electrostatic charges**	No
Melting point	N/Av.	**Sensibility to sparks and/or friction**	No
Freezing point	N/Av.	**Vapour density**	N/Av. (Air = 1)
Boiling point	N/Av.	**Relative density**	N/Av. (Water = 1)
Solubility	Partially soluble in water.	**Partition coefficient n-octanol/water**	N/Av.
Evaporation rate	N/Ap.	**Decomposition temperature**	N/Av.
Vapour pressure	N/Av.	**Viscosity**	N/Ap.
Percent Wt. Volatile	N/Av.	**Molecular mass**	N/Ap.
VOC (g/L)	N/Av.	**% Volume Volatile (VOC)**	N/Av.
VOC (lb/gal)	N/Av.	**% Wt. Volatile (VOC)**	N/Av.

N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established

10. Stability and reactivity

Reactivity	No reactivity expected.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions (including polymerizations)	A dangerous reaction will not occur.
Conditions to avoid	Keep away from moisture.
Incompatible materials	None reported.
Hazardous decomposition products	No decomposition product.

11. Toxicological information

Numerical measures of toxicity

Manganese carbonate	Ingestion	>2000 mg/kg	Rat	LD50
	Inhalation	>5.35 mg/l/4h	Rat	LC50
Zinc Oxide	Ingestion	7950 mg/kg	Mouse	LD50
	Inhalation	2.5 mg/l/4h	Mouse	LC50
	Skin	>2000 mg/kg	Rabbit	LD50
Copper chloride hydroxide (Cu2Cl(OH)3)	Ingestion	1398 mg/kg	Rat	LD50
	Inhalation	4.74 mg/l/4h	Rat	LC50
	Skin	>2000 mg/kg	Rat	LD50
Iron(III) trioxide	Ingestion	>10000 mg/kg	Rat	LD50
	Skin	>2000 mg/kg	Rabbit	LD50

Likely routes of exposure: Skin, eyes, inhalation.

Delayed, immediate and chronic effects

Eye contact	Direct contact with eyes may cause temporary irritation.
Skin contact	Prolonged and repeated contact may cause skin dryness and irritation.
Inhalation	Dusts may irritate throat and respiratory system and cause coughing.
Ingestion	No negative effects expected in small quantities. May cause gastric disturbance.
Respiratory or skin sensitization	Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.
IARC/NTP Classification	No ingredients listed.
Carcinogenicity	Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA.
Mutagenicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.
Reproductive toxicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.
Specific target organ toxicity - single exposure	No target organ is listed.
Specific target organ toxicity - repeated exposure	No target organ is listed.

Interactive effects: No information available.

Other information: No additional information.

12. Ecological information

Ecological toxicity

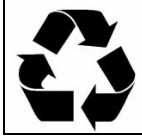
Fish - Danio rerio (static)	LC50	1.55-1.8 mg/L; 96 h (CAS no 1314-13-2)
Aquatic Invertebrate - Crustaceans, Daphnia Magna	EC50	0.122 mg/L; 48 h (CAS no 1314-13-2)
Fish - Oncorhynchus mykiss - Rainbow trout	LC50	3.17 mg/L; 96 h (CAS no 598-62-9)

	Aquatic Invertebrate - Crustaceans, Daphnia Magna	EC50	>3.6 mg/L; 48 h (CAS no 598-62-9)
	Aquatic Invertebrate - Daphnia Magna, water flea (static)	EC50	>100 mg/L; 48 h (CAS no 1309-37-1) OECD 202
	Fish - Cyprinus carpio - Carp	LC50	2940 mg/L; 96 h (CAS no 1332-65-6)
	Aquatic Invertebrate - Crustaceans, Macrobrachium rosenbergii	EC50	0.05-0.25 mg/L; 48 h (CAS no 1332-65-6)

Persistence	Inorganic compounds persist in the environment indefinitely or incorporate into biological systems.
Degradability	No information available for this product.
Bioaccumulative potential	No information available for this product.
Mobility in soil	The product is a mixture of which some ingredients have a high mobility in the soil, while other ingredients have a moderate mobility in the soil.
Other adverse effects	This chemical does not deplete the ozone layer.

13. Disposal considerations

Container



Important! Prevent waste generation. Use in full. Empty containers can be treated (recycled) where there is a recovery program. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

14. Transport information

UN Number	UN N/A
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
Environmental hazards	Contains ingredients that are marine pollutants.
Special precautions for user	No information available.
TDG - Transportation of Dangerous Goods (Canada & US DOT)	
Transport hazard class(es)	Not regulated
Packing group	Not regulated
2020 Emergency Response Guidebook	N/A
IMO/IMDG - International Maritime Transport	
Classification	Not regulated
IATA - International Air Transport Association	
Classification	Not regulated

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Zinc Oxide	1314-13-2	X	X		X

Manganese carbonate	598-62-9		X		X
Iron(III) trioxide	1309-37-1		X		
Copper chloride hydroxide (Cu2Cl(OH)3)	1332-65-6	X	X		X

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

UNITED STATE OF AMERICA

Common name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Zinc Oxide	1314-13-2	X								
Manganese carbonate	598-62-9	X								
Iron(III) trioxide	1309-37-1	X								
Copper chloride hydroxide (Cu2Cl(OH)3)	1332-65-6	X								

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

California Proposition 65

No ingredients listed.

Other regulations

HMIS

NFPA

16. Other information

Date (YYYY-MM-DD)	Premier Tech Home & Garden Inc 2023-06-01
Version	01
Other information	REFERENCES: - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), https://www.cnesst.gouv.qc.ca/fr - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, https://haz-map.com/ - The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, https://pubchem.ncbi.nlm.nih.gov - ECOTOX Knowledgebase, US EPA, https://cfpub.epa.gov/ecotox/search.cfm ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association OSHA: Occupational Safety and Health Administration (USA) NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program RSST: Règlement sur la santé et la sécurité du travail (Québec) GHS: Globally Harmonized System IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages WHMIS: Workplace Hazardous Materials Information System