

Safety Data Sheet
CIL Restore All Purpose
Garden Fertilizer 14-10-10



1. Identification

Product identifier	CIL Restore All Purpose Garden Fertilizer 14-10-10
Product code	2388000
Other means of identification	N.Av.
Recommended use of the chemical and restrictions on use	All Purpose Plant Food.
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. Avoid contact with open wounds. 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.
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3. Composition/information on ingredients

Common name	CAS	Weight % content
Peat Moss	Peat Moss	30 - 60 %
Limestone	1317-65-3	15 - 40 %
Potassium chloride	7447-40-7	10 - 30 %
Monoammonium phosphate	7722-76-1	10 - 30 %
XCU mixture of urea and sulfur	XCU mix	7 - 13 %
Iron(III) trioxide	1309-37-1	5 - 20 %
Iron sulfate	7720-78-7	1 - 7 %
Calcium oxide	1305-78-8	0.5 - 1.5 %

Note: The XCU ingredient is a mixture containing urea (CAS no 57-13-6) and sulfur (CAS no 7704-34-9). The manufacturer withholds the actual concentration range of the ingredients as a trade secret.

4. First-aid measures

Inhalation	Move person to fresh air. If a problem develops or persists, seek medical attention.
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	May cause redness and irritation to the eyes. May cause redness and slight irritation of the skin.
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	No immediate danger 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. Finish cleaning by rinsing with water contaminated surface.

7. Handling and storage

Precautions for safe handling	Use in well ventilated area. Avoid contact with eyes. Avoid contact with open wounds. 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. Keep away from freezing.
Storage temperature	2 to 20°C (35.6 to 68°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	Iron (III) Oxide: 2500 mg/m ³ , value as iron. Calcium oxide: 25 mg/m ³ .			
Limestone	STEL	Total Dust	20 mg/m ³	BC
	TWA (8h)	Total Dust	10 mg/m ³	ACGIH , BC, ON, RSST
Urea	TWA (8h)		10 mg/m ³	US AIHA
Sulfur	TWA (8h)	Respirable Dust	3 ppm	ACGIH
		Total Dust	10 ppm	ACGIH
Iron(III) trioxide	TWA (8h)	Respirable Dust	5 mg/m ³	ACGIH , BC, ON, RSST
Iron sulfate	STEL	Value as Metal	2 mg/m ³	BC

	TWA (8h)	Value as Metal	1 mg/m ³	ACGIH , BC, ON, RSST
Calcium oxide	TWA (8h)		2 mg/m ³	ACGIH , BC, ON, RSST
Appropriate engineering controls	Provide sufficient mechanical (general and/or local exhaust) to keep the airborne 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. In case of prolonged contact wear neoprene or nitrile gloves. Disposable nitrile gloves can also be used, but discard after single use.			
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. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA.			
Feet	Not required in normal use.			
				
Safety glasses				

9. Physical and chemical properties			
Physical state	Granular solid	Flammability	Non-flammable
Colour	Multicoloured	Flammability limits	N/Av.
Odour	Earthy alkaline	Flash point	N/Av.
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.
pH	N/Av.	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	N/Av.	Partition coefficient n-octanol/water	N/Av.
Evaporation rate	N/Av.	Decomposition temperature	N/Av.
Vapour pressure	N/Av.	Viscosity	N/Av.
Percent Wt. Volatile	N/Av.	Molecular mass	N/Av.
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/Av.: 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	Strong acids.
Hazardous decomposition products	No decomposition product.

11. Toxicological information

Numerical measures of toxicity	Limestone	Ingestion	6450 mg/kg	Rat	LD50
	Potassium chloride	Ingestion	2600 mg/kg	Rat	LD50
			1500 mg/kg	Mouse	LD50
		Skin	>2000 mg/kg	Rabbit	LD50
	Monoammonium phosphate	Ingestion	>2000 mg/kg	Rat	LD50
		Inhalation	>5 mg/l/4h	Rat	LC50
		Skin	>2000 mg/kg	Rat	LD50
	Sulfur	Ingestion	>2000 mg/kg	Rat	LD50
		Inhalation	>5.43 mg/l/4h	Rat	LC50
		Skin	>2000 mg/kg	Rabbit	LD50
	Urea	Ingestion	8471 mg/kg	Rat	LD50
		Skin	>21000 mg/kg	Rabbit	LD50
	Iron(III) trioxide	Ingestion	>10000 mg/kg	Rat	LD50
		Skin	>2000 mg/kg	Rabbit	LD50
	Iron sulfate	Ingestion	319 mg/kg	Rat	LD50
			1520 mg/kg	Mouse	LD50
Skin		>2000 mg/kg	Rat	LD50	
Calcium oxide	Ingestion	7340 mg/kg	Rat	LD50	
	Skin	>2000 mg/kg	Rat	LD50	
Likely routes of exposure	Skin, eyes, inhalation.				
Delayed, immediate and chronic effects	Eye contact	May cause redness and irritation to the eyes. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with each ingredient (>1%) of this mixture gave not irritating to corrosive results.			
	Skin contact	May cause redness and slight irritation of the skin. Skin Irritation/Corrosion, Rabbit (OECD 404) : tests performed with each ingredient (>1%) of this mixture gave not irritating to irritating results.			
	Inhalation	Dusts may irritate throat and respiratory system and cause coughing.			
	Ingestion	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	Common name IARC NTP Limestone - -			
	Carcinogenicity	IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens. 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 - Oncorhynchus mykiss - Rainbow trout (semi-static)	LC50	>100% saturation; 96 h (CAS no 1317-65-3)
	Aquatic Invertebrate - Daphnia Magna (immobilization) - freshwater	EC50	>100% saturation; 48 h (CAS no 1317-65-3)
	Fish - Pimephales promelas (fathead minnow)	LC50	880 mg/L; 96 h (CAS no 7447-40-7) OECD 203
	Aquatic Invertebrate - Daphnia magna (Water flea)	EC50	>440 mg/L; 48 h (CAS no 7447-40-7) OECD 202
	Algae - Desmodesmus subspicatus	EC50	9.24 mg/L; 72 h (CAS no 7447-40-7)
	Fish - Oncorhynchus mykiss - Rainbow trout	LC50	>85.9 mg/L; 96 h (CAS no 7722-76-1) OECD 203
	Aquatic Invertebrate - Daphnia magna (Water flea)	EC50	>100 mg/L; 48 h (CAS no 7722-76-1) OECD 202
	Algae - Pseudokirchneriella subcapitata (green algae)	ECr50	>100 mg/L; 72 h (CAS no 7722-76-1) OECD 201
	Fish - Oncorhynchus mykiss - Rainbow trout	LC50	>180 mg/L; 96h (CAS no 7704-34-9)
	Aquatic Invertebrate - Daphnia Magna, Water flea, fresh water	EC50	>5000 mg/L; 48h (CAS no 7704-34-9)
	Fish - Guppy - Poecilia reticulata (static)	LC50	17500 mg/L; 96 h (CAS no 57-13-6)
	Aquatic Invertebrate - Daphnia Magna (static)	EC50	3910 mg/L; 48 h (CAS no 57-13-6)
	Aquatic Invertebrate - Daphnia Magna, Water flea (static)	EC50	>100 mg/L; 48 h (CAS no 1309-37-1) OECD 202
	Fish - Cyprinus carpio - Carp (semi-static)	LC50	0.56 mg/L; 96 h (CAS no 7720-78-7)
	Aquatic Invertebrate - Daphnia magna (static)	EC50	6-9 mg/L; 48 h (CAS no 7720-78-7)
	Fish - Cyprinus carpio - Carp	LC50	1070 mg/L; 96 h (CAS no 1305-78-8)
	Aquatic Invertebrate - Daphnia Magna, Water flea (immobilization)	EC50	49.1 mg/L; 48 h (CAS no 1305-78-8) OECD 202
	Algae, Pseudokirchneriella subcapitata	ECr50	184.7 mg/L; 72 h (CAS no 1305-78-8) OECD 201
	Persistence	Inorganic compounds persist in the environment indefinitely or incorporate into biological systems.	
Degradability	The term biodegradability, as such, is not applicable to inorganic compounds.		
Bioaccumulative potential	No potential to bioaccumulate.		
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 to low mobility in the soil.		

Other adverse effects	This chemical does not deplete the ozone layer.
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13. Disposal considerations


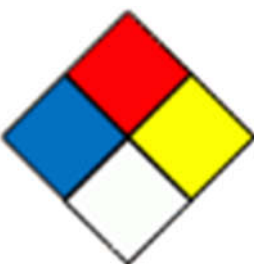
Container 	Important! Prevent waste generation. Use in full. Empty containers can be treated (recycled) where there is a recovery program. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.
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14.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

UN Number	UN N/A
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
Environmental hazards	This material does not contain marine pollutant.
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
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

Other regulations	
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>HMIS</p>  <p>Health Flamability Reactivity Protective Equipment</p> </div> <div style="text-align: center;"> <p>NFPA</p>  </div> </div>

WHMIS 2015/GHS	
	Serious eye damage/eye irritation (Category 2)

WARNING

H319: Causes serious eye irritation

P102: Keep out of reach of children.

P103: Read label before use.


P264: Wash skin thoroughly after handling.

P280: Wear eye protection.

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

P337+P313: If eye irritation persists: Get medical advice or attention.

16. Other information

Date (YYYY-MM-DD)	Premier Tech Home & Garden Inc 2023-06-07
Version	01
Other information	<p>REFERENCES:</p> <ul style="list-style-type: none"> - 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 <p>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</p>
<p>Powered by</p>  <p>A global vision of prevention</p>	<p>To the best of our knowledge, the information contained herein is accurate. However, neither Preventis System, nor the above named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p>