

Cornerstone[®] Plus (EPA Reg # 1381-192)

NFPA HAZARD RATING

0 Least 1 Slight 2 Health 2 Moderate 0 Flammability 3 High Reactivity 1 4 Severe

U.S. TRANSPORT SUMMARY

Not regulated by the U.S. DOT as a hazardous material. (See Section 14 for additional information.)

SECTION 1: IDENTIFICATION			
Product Name:	Cornerstone® Plus		
EPA Registration #:	1381-192		
Product ID/Unity #:	10016584, 10109578, 10109579, 10109580, 10109581, 1400088 (Check product packaging to		
-	ensure EPA registration number on package matches the number on this Safety Data Sheet)		
Common Name:	Glyphosate herbicide		
Chemical Description:	Isopropylamine salt of Glyphosate		
Recommended Uses:	Agricultural Herbicide. See product label for complete list of uses and use sites.		
Restrictions for Use:	See product label for information regarding restrictions on the use of this product.		
Manufactured For:	1anufactured For: MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)		
WINFIELD SOLUTIONS, LLC			
P. O. Box 64589	Non-Emergency Business Inquiries: 1-855-494-6343		
St. Paul, MN 55164-0589			
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:			

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)

	SECTION 2: HA	ZARDS IDENTIFICATI	ON	
	ENCY OVERVIEW: Clear pale yellow to amber liquid with no to slight amine odor. Moderate eye irritant. May react with uch as galvanized or unlined steel to produce hydrogen gas which could form a highly combustible gas mixture.			
POTENTIAL HE	ALTH EFFECTS:		• • •	
Eyes: May caus	se moderate eye irritation.			
Skin: Short-terr	n contact with skin may cause mild irritation	n. Prolonged contact with skin n	nay lead to swelling, redness and	
blistering.				
Inhalation: Inha	alation of mist may cause mild irritation of t	he upper respiratory tract.		
	stion may cause irritation of the digestive t			
Preexisting Co	nditions: Preexisting skin conditions may	be aggravated by exposure to m	nist or spray.	
Chronic Health	Effects: None known			
Carcinoge	nicity NTP: Not listed	IARC: Not listed	OSHA: Not listed	
OSHA HCS 201	12 CLASSIFICATION: Eye Irritation Categ	ory 2B; Acute Inhalation Toxicity	Category 4	
SIGNAL WORD): WARNING			
HAZARD STAT	EMENTS:			
Causes eye irrit	ation.		\mathbf{A}	
Harmful if inhale	ed.			
			•	
Percent of pro	duct with unknown toxicity: 0%		•	
PRECAUTIONA	ARY STATEMENTS:			
Prevention:	Wash hands thoroughly after handling. Av	oid breathing mist or spray. Use	e only outdoors or in a well-ventilated	
	area.			

Continued on next page

Response: If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) or doctor for treatment advice if you feel unwell.

Storage: See section 7 for storage information.

Disposal	See section 13 for dis	posal information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredient	% (wt)	CAS Reg. #	
Isopropylamine salt of glyphosate	41.0%	38641-94-0	
*Ingredients not specifically listed are non-hazardous and are considered to 1910.1200(i). See Section 8 for exposure limits.	to be confidential b	L usiness information under 29 CFR	

	SECTION 4: FIRST AID MEASURES
Inhalation:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
Ingestion:	Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Eyes:	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation occurs.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, foam or dry chemical. Foam or dry chemical extinguishing systems are recommended to prevent environmental damage due to water run-off.

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Hazardous Combustion Products: Carbon monoxide, nitrogen oxides and phosphorous oxides

Unusual Fire and Explosion Hazards: May decompose in fire due to releasing irritating or toxic gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Keep spilled product from entering sewers or waterways.

Methods for Containment: Contain spilled product by diking area with sand or earth.

Methods for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. **Storage:** Store in cool, dry areas away from children, feed and food products and sources of heat. Store in original container with lid tightly closed. Store above 25°F (-5°C). If crystallized, warm to 80-90°F and re-dissolve by shaking container before using product. **See pesticide product label for additional storage information.**

Minimum Storage Temperature: 25°F

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines				
Component:	OSHA PEL	ACGIH TLV	NIOSH REL	
No components have exposure guidelines				
NOTE TO END USERS: PERSONAL PROTECT				
MANUFACTURING, COMMERCIAL BLENDING				
REFER TO THE PESTICIDE PRODUCT LABEL	FOR PROPER PERSONA	L PROTECTIVE EQUIPME	ENT (PPE) AND	
CLOTHING.				
Respiratory Protection: Wear respiratory prote			(or equivalent) TC23C	
Chemical/Mechanical type filter system to remov	e a combination of particles	s, gas and vapors.		
		st ventilation systems to ma		
concentrations belo	w OSHA PELs or other spe	cified exposure limits. Loca	al exhaust ventilation is	
preferred.				
Protective Gloves: Wear chemical resistant gloves.				
Eye Protection: Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices.				
An emergency eyewash or water supply should be readily accessible to the work area.				
Other Protective Clothing or Equipment: Wear long sleeve shirt, long pants and shoes plus socks to prevent skin exposure.				
Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material,				
especially before eating, drinking, smoking, using the toilet, or applying cosmetics.				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H ₂ O=1):	1.15 – 1.21 (typical)
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	9.6 – 10.1 lbs/gallon
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Emulsifies	Boiling Point/Range:	Not determined
Viscosity:	Not determined	pH:	4.4 – 5.1
Appearance and odor:	Clear pale yellow to amber liquid with no to slight amine odor.	Flash Point:	Does not flash

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions. Possibility of Hazardous Reactions: Will not occur Conditions to Avoid: Temperatures above 115°F (46°C) and below 25°F (-5°C). Incompatible Materials: Strong oxidizers or bases, mild and galvanized steel. Hazardous Decomposition Products: Carbon monoxide, Nitrogen oxides, phosphorous oxides

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	
Eye Effects:	Causes moderate eye irritation (rabbit)
Skin Effects:	Short-term contact with skin may cause mild irritation. Prolonged contact with skin may lead to swelling, redness and blistering. LD50 >5,000 mg/kg (male rat). Product is not a sensitizer.
Acute Inhalation Effects:	LC50 >2.5 mg/L (rat)
Acute Oral Effects:	LD50 >5,000 mg/kg (rat)
Specific Target Organ	None known
Toxicity:	
CHRONIC TOXICITY	
Chronic Effects:	None known
Carcinogenicity:	None known
Mutagenicity:	None known
Teratogenicity:	None known
Reproductive Toxicity:	None known
POTENTIAL HEALTH EFFE	ECTS:
Eyes: May cause moderate	eye irritation.
Chine Chart term contact with	halvin may cause mild invitation. Bralanzad context with alvin may load to availing reduces and

Skin: Short-term contact with skin may cause mild irritation. Prolonged contact with skin may lead to swelling, redness and blistering.

Inhalation: Inhalation of mist may cause mild irritation of the upper respiratory tract.

Ingestion: Ingestion may cause irritation of the digestive tract and lead to colitis.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Do not apply directly to water, to areas where surface water is present or to intertidal areas			
below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or			
rinsate. The information presented be	low is on the technical active ingredient, glyphosate.		
ECOTOXICITY DATA:			
Fish Acute and Prolonged Toxicity:	Bluegill Sunfish: >24 mg/L (48 hour)		
	Rainbow Trout: 140 mg/L (48 hour)		
Aquatic Invertebrate Acute Toxicity:	Daphnia magna: 780 ppm (48 hour)		
Aquatic Plant Toxicity:	Not determined		
Bird Acute and Prolonged Toxicity:	Bobwhite quail: Acute LD50 >2,000 mg/kg		
Honeybee Toxicity:	>100 ug/bee (oral); practically non-toxic		
ENVIRONMENTAL EFFECTS:			
Soil Absorption/Mobility:	Even though technical glyphosate is highly water soluble it appears that parent glyphosate and its degradation product, aminomethyl phosphonic acid (AMPA), have a low potential to move to ground-water due to their strong adsorptive characteristics demonstrated in laboratory and field studies. However, glyphosate does have the potential to contaminate surface waters due to its aquatic use patterns and erosion via transport of residues adsorbed to soil particles suspended in runoff water. If glyphosate were to reach surface water it would be resistant to hydrolysis and aqueous photolysis.		
Persistence and degradability:	Glyphosate technical is readily degraded by soil microbes to aminomethyl phosphonic acid (AMPA), which is degraded to CO2, although at a slower rate than parent glyphosate.		
Bioaccumulative Potential:	Not determined		
Other adverse effects:	Not determined		

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.

Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations. **See pesticide product label for full instructions on disposal.**

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT:	This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground		
(Ground)	shipment.		
IMDG:	Not determined		
(Sea)	Not determined		
IATA:	Not determined		
(Air)			
TDG:	Not determined		
(Canada)	Not determined		

SECTION 15: REGULA	TORY INFORMATION
TSCA Inventory: This product is exempt from TSCA inventory lis SARA Title III Information: Section 302 - Extremely hazardous substances: None	
Section 311/312 – Hazard Categories: Immediate (Acute Section 313 – The following chemicals are subject to the Amendments and Reauthorization Act of 1986 and 40 CFR 3 None listed	reporting requirements of Section 313 of Title III, Superfund
CERCLA - This product contains the following chemicals which h Environmental Response, Compensation, and Liability Act (CERC None listed	
EPA Registration Information: This chemical is a pesticide proc subject to certain labeling requirements under federal pesticide la hazard information required for safety data sheets, and for workp information as required on the pesticide label:	w. These requirements differ from the classification criteria and
CAUTION Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before re-use. DOMESTIC ANIMALS: This product is considered to be relatively ingestion of this product or large amounts of freshly sprayed vege (vomiting, diarrhea, colic, etc.). If such symptoms are observed, p Call a veterinarian if symptoms persist for more than 24 hours. California Proposition 65: This product does not contain any ch	etation may result in temporary gastrointestinal irritation provide the animal with plenty of fluids to prevent dehydration.
reproductive harm. U.S. State Worker and Community Right-To-Know (RTK) Info	rmation (CT, IL, MA, MN, NH, NJ, PA, RI):
Chemical Name CAS # No components listed Canadian Domestic Substances List: Not determined	State(s)
WHMIS Classification: This product is not registered for use in (Canada. WHMIS classification is not determined.

SECTION 16: OTHER

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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