

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the s	ubstance/mixture and of the compan	v/undertakin	a
1.1. Product identifier		yrundertakin	3
Product name	: Bonide KleenUp Weed & Grass Killer 41%	Super Concentr	ate
Product code	: 4484		
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against		
Use of the substance/mixture	: Herbicide		
1.3. Details of the supplier of the safe			
Bonide Products, Inc. 6301 Sutliff Road Oriskany, NY 13424 T (315) 736-8231 www.bonide.com			
1.4. Emergency telephone number			
Emergency number	: CHEMTREC - 1 (800) 424-9300 and/or 1	(703) 527-3887	
SECTION 2: Hazards identification	n		
2.1. Classification of the substance of			
Classification (GHS-US)			
Eye Dam. 1 H318			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS05		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H318 - Causes serious eye damage		
Precautionary statements (GHS-US)	 P280 - Wear gloves/protective clothing/ey P305+P351+P338 - If in eyes: Rinse cauti lenses, if present and easy to do. Continue P310 - Immediately call a POISON CENTI 	ously with water f	
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS-US	5)		
No data available			
SECTION 3: Composition/informa	tion on ingredients		
Mixture			
Name	Product identifier	%	Classification (GHS-US)
Glyphosate	(CAS No) 1071-83-6	41	Eye Dam. 1, H318
			Aquatic Chronic 2, H411

SECTION 4: First aid measures			
4.1.	Description of first aid measures		
First-aic	l measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-aid	measures after inhalation	: Assure fresh air breathing. Allow the person to rest.	

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First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries after eye contact	 Causes serious eye damage. Note: No cases of irreversible eye effects could be attributed to glyphosate formulation in an extensive epidemiological survey or reported accidental eye contact with these formulations.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Water spray. Carbon dioxide. Dry chemical.
Unsuita	ble extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the su	bstance or mixture
Fire ha	zard	: This material does not burn.
5.3.	Advice for firefighters	
Firefigh	ting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protect	ion during firefighting	: Smoke from fires involving this material may present unuasual hazards Avoid breathing smoke and mists. Avoid contact with fallout and runoff.

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Emergen	cy procedures	Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protective	e equipment :	Equip cleanup crew with proper protection.	
Emergen	cy procedures :	Ventilate area.	
6.2.	Environmental precautions		
Prevent e	entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.	
6.3.	Methods and material for containment	and cleaning up	
Methods	for cleaning up :	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	: Wash hands thoroughly after handling.
7.2. Conditions for safe storage, including	ng any incompatibilities
Storage conditions	: Store in original container. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Combustible materials.
7.3. Specific end use(s)	

No additional information available

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SECTION 8: Exposure controls/p	ersonal protection	
A.1. Control parameters		
Bonide KleenUp Weed & Grass Killer 41	% Super Concentrate	
DNEL DNEL		>=
8.2. Exposure controls		
8.2. Exposure controls Personal protective equipment	: Avoid all unnecessary exposure.	
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or safety glasses.	
Respiratory protection	: Wear approved mask.	
Other information	: When using, do not eat, drink or smo	oke.
SECTION 0: Physical and chamic	al proportios	
SECTION 9: Physical and chemic 9.1. Information on basic physical a		
Physical state	: Liquid	
Appearance	: Amber or light brown liquid.	
Color	: Amber or light brown liquid.	
Odor	: Characteristic.	
Odor threshold	: No data available	
рН	: 4.5 - 5	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Self ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: 1.172	
Solubility	: Completely miscible.	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available : No data available	
Oxidizing properties Explosive limits	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactive	/ity	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

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10.5.	Incompatible materials				
Strong	Strong acids. Strong bases.				
10.6.	Hazardous decomposition products				
Carbon	Carbon monoxide. Carbon dioxide.				
SECT	SECTION 11: Toxicological information				
SLUI	Section 11. Toxicological information				
11.1.	1.1. Information on toxicological effects				
Acute to	xicity : Not classified				

Glyphosate (1071-83-6)	
LD50 oral rat	4873 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 12.2 mg/l/4h (Rat)
Skin corrosion/irritation	: Not classified
	pH: 4.5 - 5
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 4.5 - 5
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after eye contact	: Causes serious eye damage. Note: No cases of irreversible eye effects could be attributed to glyphosate formulation in an extensive epidemiological survey or reported accidental eye contac with these formulations.

SECTION 12: Ecological information 12.1. Toxicity

Glyphosate (1071-83-6)		
LC50 fish 1	52 - 240 mg/l (96 h; Oncorhynchus mykiss; Soft water)	
EC50 other aquatic organisms 1	3.32 mg/l (Algae)	
LC50 fish 2	97 mg/l (96 h; Pimephales promelas)	
TLM other aquatic organisms 1	281 mg/l (96 h; Palaemonetes sp.)	
Threshold limit other aquatic organisms 1	50 mg/l (504 h; Daphnia magna)	
Threshold limit algae 2	45 mg/l (72 h; Selenastrum capricornutum)	
12.2. Persistence and degradability Bonide KleenUp Weed & Grass Killer 41% Super Concentrate		
Bonide KleenUp Weed & Grass Killer 41%	Super Concentrate	
Persistence and degradability	Not established.	
Glyphosate (1071-83-6)		
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. No inhibition of biodegradation process in the soil. Adsorbs into the soil.	
Biochemical oxygen demand (BOD)	< 0.0057 g O ² /g substance	
Chemical oxygen demand (COD)	0.53 g O ² /g substance	
2.3. Bioaccumulative potential		
Bonide KleenUp Weed & Grass Killer 41% Super Concentrate		

Bioaccumulative potential

Not established.

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Glyphosate (1071-83-6)	
BCF fish 1	0.03 (336 h; Oncorhynchus mykiss)
BCF fish 2	0.63 (840 h; Lepomis macrochirus)
BCF other aquatic organisms 1	9.6 (840 h; Lamellibranchiata; GLP)
BCF other aquatic organisms 2	8 (672 h; Procambarus sp.)
Log Pow	-3.41.7
Bioaccumulative potential	Bioaccumulation: not applicable.
2.4. Mobility in soil	
Glyphosate (1071-83-6)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
2.5. Other adverse effects	
ther information	: Avoid release to the environment.
ECTION 13: Disposal considerat	ions
3.1. Waste treatment methods	
aste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
cology - waste materials	: Avoid release to the environment.
ECTION 14: Transport information	on
accordance with DOT	
lo dangerous good in sense of transport reg	ulations
dditional information	
ther information	: No supplementary information available.
ECTION 15: Regulatory informat	ion
his chemical is a pesticide product registere esticide law. These requirements differ from	ed by the Environmental Protection Agency and is subject to certain labeling requirements under federal the classification criteria and hazard information required for safety data sheets, and for workplace labe hazard information as required on the pesticide label:
pray mist. Wash thoroughly with soap and w	y eye injury. Do not get in eyes or on clothing. Wear safety glasses. Harmful if inhaled. Avoid breathing vater after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash and pets may enter treated areas after spray has dried.
lo additional information available	
5.2. International regulations	
o additional information available	
5.3. US State regulations	
5.3. US State regulations	
5.3. US State regulations	: None.

Full text of H-phrases: see section 16:

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects

SDS US (GHS HazCom 2012) - Pesticides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.