	-	_			
SECTION 1: Identification	D	all seasons			
PRODUCT CODE:	K20-52060				
PRODUCT NAME:	TURF MASTER - N	NON-SELECT	IVE HERB. #2		
COMPANY NAME:	ULTRA-CHEM, INC	D.		EMERGENCY NUMBER: 800-535	5053
ADDRESS:	9870 BRITTON ST				
	LENEXA, KS 6621	9			
CUSTOMER SERVICE:	800-451-0726				
EMAIL:	orders@ultra-chen	ninc.com			
	HERBICIDE				
<b>SECTION 2: Hazards ident</b>	and the second se				
.1. Classification of the subst					
	anec of mixture				
GHS-US classification					
Flam. Liq. 4	H227				
Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mis	H312				
Skin Irrit. 2	H315				
Eye Irrit. 2	H319				
Carc. 1B	H350				
STOT SE 3	H336				
STOT RE 2 Asp. Tox. 1	H373 H304				
	1004	_			
2.2. Label elements					
GHS-US labeling Hazard pictograms (GHS-US)					
Signal word (GHS-US) Hazard statements (GHS-US)		Harmful in co	f swallowed and enters airv ntact with skin or if inhaled	vays	
		May cause dr May cause ca	us eye irritation rowsiness or dizziness ancer	nus, bone marrow) through prolonged	or repeated
		exposure		all bone maneny an eagit protonget	
Precautionary statements (GHS-U	JS)		I instructions before use	have been read and understand	
			om open flames, sparks, he	have been read and understood at No smoking	
			e mist, spray, vapors		
			ng mist, spray, vapors		
			hly after handling		
			oors or in a well-ventilated ve clothing, eye protection,		
			Immediately call a POISON		
			sh with plenty of water		
				d keep comfortable for breathing	
			se cautiously with water for o. Continue rinsing	several minutes. Remove contact ler	ises, it present
			concerned: Get medical ad	vice/attention	
			a POISON CENTER if you		
			dvice/attention if you feel u		
		•	nent (see First aid measure	,	
		Specific treatr Do NOT induc	nent (see First aid measure	S ON THIS IADEI)	
			ie vomiting n occurs: Get medical advic	e/attention	
			persists: Get medical advid		
		Take off conta	minated clothing and wash	it before reuse	
			Use dry extinguishing pow	der, carbon dioxide (CO2), alcohol re	sistant foam to
		extinguish Store in a wel	-ventilated place. Keep cor	tainer tightly closed	
			-ventilated place. Keep cor		
ate of issue: 4/21/2017	Revision date: 04/14		Version: 2.2		Dere 4 -66
AC UI 13340. 7/21/2011	revision uate: 04/14	12011	V0131011. 2.2	P GHS SDS	Page 1 of 8

TURF MASTER NON-SELECTIVE HERB. #2

Store locked up

Dispose of contents/container to comply with local/regional/national regulations

#### 2.3. Other hazards No additional Information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

#### Full text of H-phrases: see section 16

Name	Product identifier	%	GHS-US classification	
Petroleum Solvent	(CAS-No.) 68476-34-6	75 - 90	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	
Glycol Ether EB	(CAS-No.) 111-76-2	10 - 20	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Asp. Tox. 1, H304	
2-elhylhexyl 2,4-dichlorophenoxyacetate	(CAS-No.) 1928 43-4	0.98 - 1.20	Acute Tox. 4 (Oral), H302	
bromacil	(CAS-No.) 314-40-9	0.93 - 1.03	Eye Irrit 2A, H319	
naphthalene	(CAS-No.) 91-20-3	0 - 0.25	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Carc. 1B, H350 Aquatic Acute 1, H400	

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

1.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
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. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Consu a doctor/medical service.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and el	ects, both acute and delayed
Symptoms/effects	May cause cancer. May be fatal if swallowed and enters airways. Harmful if inhaled. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs (liver, thymus, bone marrow) through prolonged or repeate exposure.
Symptoms/effects after inhalation	Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	Causes skin irritation. Harmful in contact with skin.
Symptoms/effects after eye contact	Causes serious eye irritation.
Symptoms/effects after ingestion	May be fatal if swallowed and enters airways.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

- : Dry chemical powder. Carbon dioxide. Alcohol-resistant foam.
- Solid water jet ineffective as extinguishing medium.

5.2. Special hazards arising from the Fire hazard	Combustible liquid.
Explosion hazard	<ul> <li>Explosion risk in case of fire. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May be ignited by sparks. May form flammable/explosive vapor-air mixture.</li> </ul>
Reactivity	On burning: release of toxic and corrosive gases/vapors (nitrous vapors, sulphur oxides, carbon monoxide - carbon dioxide). If the product is involved in a fire, it can release toxic chlorine gases. Reacts violently with (strong) oxidizers.
5.3. Advice for firefighters	
Firefighting instructions	Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	neasures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel	
Protective equipment	Protective goggles. Gloves. Protective clothing.
Emergency procedures	Evacuate unnecessary personnel. No naked flames or sparks.
6.1.2. For emergency responders	
Protective equipment	Equip cleanup crew with proper protection.
Emergency procedures	Stop leak if safe to do so. Stop release. Ventilate area.
5.2. Environmental precautions	
Avoid release to the environment. Preve	
5.3. Methods and material for contain For containment	Contain released substance, pump into suitable containers.
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation. Take up liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated surfaces with a soap solution.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stora	
7.1. Precautions for safe handling	
Additional hazards when processed	Handle empty containers with care because residual vapors are flammable. Keep away from open flame, sparks, excessive heat No smoking.
Precautions for safe handling	Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Do not breathe vapors. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Keep away from sources of ignition - No smoking. Take precautions against electrostatic charges. Obtain special instructions before use. Remove contaminated clothing immediately.
Hygiene measures	Wash thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Fechnical measures	<ul> <li>Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.</li> </ul>
Storage conditions	<ul> <li>Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.</li> </ul>
ncompatible products	: Oxidizing agent.
ncompatible materials	Sources of ignition.
leat-ignition	KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.
nformation on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents.
Storage area	Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place. Keep locked up.
Special rules on packaging	Keep only in original container, meet the legal requirements.

#### SECTION 8: Exposure controls/personal protection

Date of issue: 4/21/2017

bromacil (314-40-9	)	
ACGIH	ACGIH TWA (mg/m³)	10 mg/m <sup>3</sup> (Bromacil; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
naphthalene (91-20	)-3)	
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye irr; Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
Glycol Ether EB (1	11-76-2)	
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
2-ethylhexyl 2,4-dia	chlorophenoxyacetate (1928-43-4)	
Not applicable		
Petroleum Solvent	(68476-34-6)	
Not applicable		
2 Puppenne	1. 1. 11.	S of SMALDARAM TARA
.2. Exposure contr ppropriate engineeri	ng controls : Ventilation rates should be ma	tched to conditions. If applicable, use process enclosures, local igineering controls to maintain airborne levels below recommended
ersonal protective ec		ective equipment when risk assessment indicates this is necessary. otective goggles. Safety glasses.

SECTION 9: Physical and chemica	l properties			
9.1. Information on basic physical and	chemical properties			
Physical state	: Liquid			
Appearance	Clear, red colo	ored liquid.		
Odor	; Fuel oil odor			
Odor threshold	: No data availa	ble		
pН	: No data availa	ble		
Melting point	: No data availa	ble		
Freezing point	: No data availa	ble		
Boiling point	: No data availa	ble		
Flash point	: 145 °F			
Relative evaporation rate (butyl acetate=1	No data availa	ble		
Flammability (solid, gas)	: No data availa	ble		
Explosion limits	: No data availa	ble		
Explosive properties	: Heating may c	ause a fire or explosion.		
Oxidizing properties	: No data availa	ble		
Vapor pressure	🕴 No data availa	ble		
Date of issue: 4/21/2017 Revision	date: 04/14/2017	Version: 2.2	P GHS SDS	Page 4 of 8

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TURF MASTER NON-SELECTIVE HERB. #2

Relative density	No data available
Relative vapor density at 20 °C	No data available
Specific gravity / density	: 0.875 g/ml
Solubility	Insoluble in water
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	🗄 No data available
Viscosity, kinematic	< 20 cSt
Viscosity, dynamic	k No data available
VOC content	; > 90 %

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

On burning: release of toxic and corrosive gases/vapors (nitrous vapors, sulphur oxides, carbon monoxide - carbon dioxide). If the product is involved in a fire, it can release toxic chlorine gases. Reacts violently with (strong) oxidizers.

#### 10.2. Chemical stability

Combustible liquid. Stable under normal conditions. Risk of explosion if heated under confinement, Heating may cause a fire or explosion.

### **10.3.** Possibility of hazardous reactions Refer to section 10.1 on Reactivity.

10.4. Conditions to avold

Refer to Section 10 on Incompatible Materials. Open flame. Overheating. Sparks.

#### **10.5.** Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition produces: CO, CO2, Oxides of nitrogen and other potentially toxic fumes.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Dermal: Harmful in contact with skin. Inhalation:dust,mist: Harmful if inhaled. Acute toxicity

D50 oral rat	5200 mg/kg (Rat)
LD50 dermal rat	> 2500 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 4.8 mg/l/4h (Rat)
ATE CLP (oral)	5200.000 mg/kg body weight
naphthalene (91-20-3)	
LD50 oral rat	> 1100 mg/kg (Rat)
LD50 dermal rat	> 2500 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
ATE CLP (oral)	500.000 mg/kg body weight
Glycol Ether EB (111-76-2)	
LD50 oral rat	1300 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE CLP (oral)	1300.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (dust, mist)	1.500 mg/l/4h
2-ethylhexyl 2,4-dichlorophenoxyac	etate (1928-43-4)
LD50 oral rat	896 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 5.4 mg/l/4h (Rat)
Petroleum Solvent (68476-34-6)	
LD50 oral rat	> 7600 mg/kg
LD50 dermal rat	> 4300 mg/kg
LC50 inhalation rat (mg/l)	4.1 mg/l

Date of issue: 4/21/2017

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Revision date: 04/14/2017

Serious eye damage/irritation	Ę.	Causes serious eye irritation.
Respiratory or skin sensitization	ā)	Not classified
Germ cell mutagenicity	2	Not classified
Carcinogenicity	8	May cause cancer.
naphthalene (91-20-3)		
IARC group		2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status		3 - Reasonably anticipated to be Human Carcinogen
Glycol Ether EB (111-76-2)	_	
IARC group		3 - Not classifiable
Reproductive toxicity		Not classified
Specific target organ toxicity - single exposure		May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure	3	May cause damage to organs (liver, thymus, bone marrow) through prolonged or repeated exposure.
Glycol Ether EB (111-76-2)		
NOAEL (oral,rat,90 days)		see comments
NOAEL (dermal,rat/rabbit,90 days)		see comments
Aspiration hazard	3	May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	3	Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	3	Causes skin irritation. Harmful in contact with skin.
Symptoms/effects after eye contact	3	Causes serious eye irritation.
Symptoms/effects after ingestion	3	May be fatal if swallowed and enters airways.
Likely routes of exposure	1	Skin and eye contact;Ingestion;Inhalation

#### **SECTION 12: Ecological information**

2.1. Toxicity				
bromacil (314-40-9)				
LC50 fish 1	75 mg/l (LC50; 48 h)			
naphthalene (91-20-3)				
EC50 Daphnia 1	2.16 mg/l (EC50; 48 h; Daphnia magna)			
LC50 fish 2	0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss)			
Threshold limit algae 1	0.4 mg/l (EC50; 72 h; Skeletonema costatum)			
Glycol Ether EB (111-76-2)				
LC50 fish 1	1474 mg/l Oncorhynchus mykiss			
EC50 Daphnia 1	100 mg/l Water flea			
ErC50 (algae)	1840 mg/l Pseudokirchneriella subcapitata			
NOEC chronic fish	> 100 mg/l			
NOEC chronic crustacea	100 mg/l daphnid			
2.2. Persistence and degradability				
bromacil (314-40-9)				
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photodegradation in the air.			
naphthalene (91-20-3)				
Persistence and degradability	Readily biodegradable In water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.			
Biochemical oxygen demand (BOD)	0 g O <sub>2</sub> /g substance			
Chemical oxygen demand (COD)	0.22 g O₂/g substance			
ThOD	2.99 g O <sub>2</sub> /g substance			
2.3. Bioaccumulative potential				
bromacil (314-40-9)				
BCF fish 1	2.8 - 26.5 (BCF; 672 h; Leuciscus idus)			
BCF fish 2	4.25 (BCF; 388 h; Pimephales promelas)			
Log Pow	2.11			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			

Date of issue: 4/21/2017

TURF MASTER NON-SELECTIVE HERB. #2

naphthalene (91-20-3) BCF fish 1	23 - 168 (BCF; 8 weeks; Cyprinus carpio)				
Log Pow	3.3 (Experimental value)				
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).				
2-ethylhexyl 2,4-dichlorophenoxyacetate (19					
Log Pow 5.78 (Experimental value)					
SECTION 13: Disposal consideratio	S	ter and the second s			
13.1. Waste treatment methods Product/Packaging disposal recommendation	: Dispose of contents/container to comply with local/reg	ional/national regulations.			
Additional information	Clean up even minor leaks or spills if possible without				
	containers with care because residual vapors are flam				
SECTION 14: Transport information					
Department of Transportation (DOT)					
Transport document description	NA1993 Combustible liquid, n.o.s. (Aliphatic Hydrocarbon	), 3, 111			
JN-No.(DOT)	NA1993				
Proper Shipping Name (DOT)	Combustible liquid, n.o.s.				
Class (DOT)	3 - Class 3 - Flammable and combustible liquid 49 CFR 1	73.120			
Packing group (DOT)	III - Minor Danger				
DOT Packaging Non Bulk (49 CFR 173.xxx)	203				
OOT Packaging Bulk (49 CFR 173.xxx)	241				
OOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name				
DOT Special Provisions (49 CFR 172.102)	IB3,T1,T4,TP1				
OCT Packaging Exceptions (49 CFR 73.xxx)	150				
aircraft/rail (49 CFR 173.27)	60 L				
only (49 CFR 175.75)	220 L				
OOT Vessel Stowage Location	A				
Additional information Emergency Response Guide (ERG) Number	: 128				
Other Information	: When transported by ground in non-bulk container	s, this product utilizes the exception			
0.7	found under 49 CFR 173.150.				
NDR No additional information available					
Transport by sea					
lo additional information available					
lir transport Io additional information available					
ECTION 15: Regulatory informatio					
All components of this product are listed, or e Control Act (TSCA) inventory	cluded from listing, on the United States Environmental Prot	ection Agency Toxic Substances			
Chemical(s) subject to the reporting requirements of the second sec	nts of Section 313 or Title III of the Superfund Amendments	and Reauthorization Act (SARA) of			
romacil	CAS-No. 314-40-9	0.93 - 1.03%			
aphthalene	CAS-No. 91-20-3	0 - 0.25%			
-ethylhexyl 2,4-dichlorophenoxyacetate	CAS-No. 1928-43-4	0.98 - 1.20%			
Blycol Ether EB	CAS-No. 111-76-2	10 - 30 %			
bromacil (314-40-9)					
Subject to reporting requirements of United St	ites SARA Section 313				
naphthalene (91-20-3)					

Date of issue: 4/21/2017



TURF MASTER NON-SELECTIVE HERB. #2

naphthalene (91-20-3)		
Subject to reporting requirements of	United States SARA Section 313	
CERCLA RQ	100 lb	
2-ethylhexyl 2,4-dichlorophenoxyac	etate (1928-43-4)	
Subject to reporting requirements of	Jnited States SARA Section 313	

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for work place labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing.

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

ning advice	Normal use of this product shall imply use in accordance with the instructions on the packaging.
text of H-phrases:	
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H350	May cause cancer
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

NFPA health hazard	£	<ol> <li>Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.</li> </ol>	
NFPA fire hazard	+	2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.	<
NFPA reactivity		0 - Material that in themselves are normally stable, even under fire conditions.	0



Prepared by: Technical Department

**SECTION 16: Other information** 

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. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.