Ground King Safety Data Sheet

Safety Data Sheet	
SECTION 1: Product and co	
Product name : Use of the substance/mixture : Product code : Company :	 Ground King Herbicide 0322 Metropolitan Compounds 3343 N University Drive Hollywood, FL 33024 - USA
Emergency number :	T (855) 474-6781 : Chemtec: (800) 424-9300
SECTION 2: Hazards identi	
2.1. Classification of the substa	
GHS-US classification	
Flam. Liq. 3 Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist Skin Irrit. 2 Eye Irrit. 2 Muta. 1B Carc. 1B STOT SE 3 STOT RE 2 Asp. Tox. 1	H226 H312 H332 H315 H319 H340 H350 H336 H373 H304
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	
Signal word (GHS-US) Hazard statements (GHS-US)	 GHS02 GHS07 GHS08 Changer Flammable liquid and vapor May be fatal if swallowed and enters airways Harmful in contact with skin or if inhaled Causes skin irritation Causes serious eye irritation May cause drowsiness or dizziness May cause genetic defects May cause cancer May cause damage to organs (liver, thymus, bone marrow) through prolonged or repeated exposure
Precautionary statements (GHS-L	JS) : Obtain special instructions before use Do not handle until all safety precautions have been read and understood Keep away from heat, hot surfaces, open flames, sparks No smoking Keep container tightly closed Ground/Bond container and receiving equipment Use explosion-proof electrical, lighting, ventilating equipment Use only non-sparking tools Take precautionary measures against static discharge Do not breathe mist, spray, vapors Avoid breathing mist, spray, vapors Wash thoroughly after handling Use only outdoors or in a well-ventilated area Wear eye protection, protective clothing, protective gloves If swallowed: Immediately call a doctor, a POISON CENTER If on skin: Wash with plenty of soap and water If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower If inhaled: Remove person to fresh air and keep comfortable for breathing If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If exposed or concerned: Get medical advice/attention Call a doctor, a POISON CENTER if you feel unwell Get medical advice/attention if you feel unwell Specific treatment (see First aid measures on this label)

	Specific treatment (see First aid measures on this label)
	Do NOT induce vomiting
	If skin irritation occurs: Get medical advice/attention
	If eye irritation persists: Get medical advice/attention
	Take off contaminated clothing and wash it before reuse
	In case of fire: Use ABC-powder, alcohol resistant foam, carbon dioxide (CO2) to extinguish
	Store in a well-ventilated place. Keep container tightly closed
	Store in a well-ventilated place. Keep cool
	Store locked up
	Dispose of contents/container to hazardous or special waste collection point, in accordance
	with local, regional, national and/or international regulation
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	75.0 - 90.0	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
SOLVESSO 100	(CAS-No.) 64742-95-6	7.0 - 13.0	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Polyethylene glycol octylphenyl ether	(CAS-No.) 9036-19-5	3.0 - 7.0	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Prometon	(CAS-No.) 1610-18-0	3.0 - 7.0	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
butan-1-ol, n-butanol	(CAS-No.) 71-36-3	1.0 - 5.0	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
2-phenoxyethanol	(CAS-No.) 122-99-6	0.5 - 1.5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
naphthalene	(CAS-No.) 91-20-3	0 - 0.242	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.

SECTION 4: First aid measures		
4.1. 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	:	Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
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	:	Immediately call a poison center or doctor/physician. Do NOT induce vomiting.

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4.2. Most important symptoms and effe	sts, both acute and delayed
Symptoms/effects	: 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 genetic defects (through prolonged or repeated exposure). May cause cancer. May cause damage to organs (liver, thymus, bone marrow) through prolonged or repeated exposure.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.
4.9 To disable of some bound distance di	

4.3. Indication of any immediate medical attention and special treatment needed No additional information available

5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical powder. Carbon dioxide. Alcohol-resistant foam.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: Flammable liquid and vapor.
Reactivity	 On burning: release of toxic and corrosive gases/vapours (nitrous vapours, 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	
	: Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire
Firefighting instructions	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers.
Firefighting instructions Protection during firefighting SECTION 6: Accidental relea	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. : Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting SECTION 6: Accidental relea	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. : Do not enter fire area without proper protective equipment, including respiratory protection.
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Protection during firefighting SECTION 6: Accidental relea 6.1. Personal precautions, protec General measures	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. : Do not enter fire area without proper protective equipment, including respiratory protection. se measures : tive equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges.
Protection during firefighting SECTION 6: Accidental relea 6.1. Personal precautions, protect General measures 6.1.1. For non-emergency persor	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. : Do not enter fire area without proper protective equipment, including respiratory protection. se measures : tive equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges.
Protection during firefighting SECTION 6: Accidental relea 6.1. Personal precautions, protection General measures 6.1.1. For non-emergency person Protective equipment	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. Do not enter fire area without proper protective equipment, including respiratory protection. se measures tive equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. mel
Protection during firefighting SECTION 6: Accidental relea 6.1. Personal precautions, protection	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. Do not enter fire area without proper protective equipment, including respiratory protection. se measures : Remove ignition sources. Use special care to avoid static electric charges. : Protective goggles. Gloves. Protective clothing. : Evacuate unnecessary personnel. No naked flames or sparks.
Protection during firefighting SECTION 6: Accidental relea 6.1. Personal precautions, protect General measures 6.1.1. For non-emergency persor Protective equipment Emergency procedures	remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water. Do not enter fire area without proper protective equipment, including respiratory protection. se measures : Remove ignition sources. Use special care to avoid static electric charges. : Protective goggles. Gloves. Protective clothing. : Evacuate unnecessary personnel. No naked flames or sparks.

6.3. Methods and material for containment and cleaning up		
For containment	ntain released substance, pump into suitable containers.	
Methods for cleaning up	is material and its container must be disposed of in a safe way, and as per local l liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated su ap solution.	0

6.4. Reference to other sections No additional information available

SECTION 7: Handling a	nd storage			
7.1. Precautions for safe h	andling			
Precautions for safe handling	and underst eat, drink or and open th precautions	ood. Do not breathe vapors. Use p smoke when using this product. Do e container with care. Keep away fi	ndle until all safety precautions have ersonal protective equipment as reque o not get in eyes, on skin, or on cloth rom sources of ignition - No smoking in special instructions before use. R	uired. Do not hing. Handle J. Take
Hygiene measures	: Wash thoro	ughly after handling. Wash contami	nated clothing before reuse.	
7.2. Conditions for safe sto	orage, including any incompatibilit	ties		
Technical measures			g procedures to avoid static electric	ity should be
Storage conditions	•	ghtly closed. Keep only in the origir n flames, excessive heat.	nal container in a cool, well ventilated	d place away
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ncompatible products	: Oxidizing agent.	
ncompatible materials	: Sources of ignition.	
storage area	: Store away from heat. Store i locked up.	n a cool area. Store in a dry area. Store in a well-ventilated place. Keep
pecial rules on packaging	: Keep only in original containe	r. meet the legal requirements.
-	ontrols/personal protection	
.1. Control parameters		
Prometon (1610-18-0)		
Not applicable		
SOLVESSO 100 (64742-95-	6)	
Not applicable		
Polyethylene glycol octylp	henyl ether (9036-19-5)	
Not applicable		
2-phenoxyethanol (122-99-	6)	
Not applicable		
butan-1-ol, n-butanol (71-3	6-3)	
Not applicable		
Petroleum Solvent (68476-	34-6)	
Not applicable		
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 ³)	50 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm

8.2. Exposure controls Appropriate engineering controls

: Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal protective equipment

: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Protective goggles. Safety glasses.



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Clear, red colored liquid.	
Odor	: Petroleum-like.	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	

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Boiling point	: No data available
Flash point	: 123 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.87 g/ml
Solubility	: Emulsifies 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	: No data available
VOC content	: > 90 %

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, 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 avoid

No additional information available

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	
Acute toxicity :	Dermal: Harmful in contact with skin. Inhalation:dust,mist: Harmful if inhaled.
SOLVESSO 100 (64742-95-6)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 3160 mg/kg (Rabbit)
2-phenoxyethanol (122-99-6)	
ATE CLP (oral)	500.000 mg/kg body weight
butan-1-ol, n-butanol (71-36-3)	
ATE CLP (oral)	500.000 mg/kg body weight
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
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
Skin corrosion/irritation :	Causes skin irritation.

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Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: 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
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure	: May cause damage to organs (liver, thymus, bone marrow) through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.
Likely routes of exposure	: Skin and eye contact;Inhalation

SECTION 12: Ecological information

SOLVESSO 100 (64742-95-6)	
LC50 fish 1	18 mg/l (LC50)
EC50 Daphnia 1	21 mg/l (EC50)
Threshold limit algae 1	1 - 10,EC50
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)

SOLVESSO 100 (64742-95-6)			
Persistence and degradability	Readily biodegradable in water.		
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 O₂/g substance		
Chemical oxygen demand (COD)	0.22 g O₂/g substance		
ThOD	2.99 g O₂/g substance		

SOLVESSO 100 (64742-95-6)		
Log Pow	> 3	
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).	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal	: Dispose of contents/container to comply with local/regional/national regulations.	
recommendations		

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description

Date of issue: 4/21/2017

: UN1993 Flammable liquids, n.o.s. (Aliphatic Hydrocarbons), 3, III

Safety Data Sheet		
UN-No.(DOT)	: UN1993	
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.	
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
Hazard labels (DOT)	: 3 - Flammable liquid	
	FLAMMABLE LIQUD	
Packing group (DOT)	: III - Minor Danger	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203	
DOT Packaging Bulk (49 CFR 173.xxx)	: 242	
DOT Symbols	: G - Identifies PSN requiring a technical name	
DOT Special Provisions (49 CFR 172.102)	: B1,B52,IB3,T4,TP1,TP29	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L	
DOT Vessel Stowage Location	: A	
Additional information		
Emergency Response Guide (ERG) Number	: 128	
Other information	: When transported by ground in non-bulk containers, this product utilizes the 49 CFR 173.150.	exception found under
ADR No additional information available		
Transport by sea No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information	00	
	excluded from listing, on the United States Environmental Protection Agency To	xic Substances
Control Act (TSCA) inventory		
Chemical(s) subject to the reporting requirer 1986 and 40 CFR Part 372.	nents of Section 313 or Title III of the Superfund Amendments and Reauthorizat	ion Act (SARA) of
butan-1-ol, n-butanol	CAS-No. 71-36-3 1.0 -	5.0%
naphthalene		242%
butan-1-ol, n-butanol (71-36-3)		
,		

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Subject to reporting requirements of United States	SARA Section 313
CERCLA RQ	5000 lb
naphthalene (91-20-3)	
Subject to reporting requirements of United States	SARA Section 313
CERCLA RQ	100 lb

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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

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

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SECTION 16: Other information

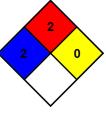
Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full 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
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
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	:	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
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.	



Prepared by: Technical Department

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.