## Safety Data Sheet



## SECTION 1: Product and company identification

Trade name : Vegetation Control w/2,4-D Use of the substance/mixture : Herbicide; Industrial use

Product code : 032001

Company : Share Corporation P.O. Box 245013

Milwaukee, WI 53224 - USA

T (414) 355-4000

Emergency number : Chemtrec: (800) 424-9300

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### **GHS-US** classification

Flam. Liq. 4 H227 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Carc. 1B H350 STOT SE 3 H336 STOT RE 2 H373 Asp. Tox. 1 H304

### 2.2. Label elements

### **GHS-US labeling**

Hazard pictograms (GHS-US)





GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Combustible liquid

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 cancer

May cause damage to organs (liver, thymus, bone marrow) through prolonged or repeated

exposure

Precautionary statements (GHS-US)

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Keep away from open flames, sparks, heat. - No smoking

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 protective clothing, eye protection, protective gloves If swallowed: Immediately call a POISON CENTER, a doctor

If on skin: Wash with plenty of water

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 dry extinguishing powder, carbon dioxide (CO2), alcohol resistant foam to

extinguish

Store in a well-ventilated place. Keep container tightly closed

Store in a well-ventilated place. Keep cool

Date of issue: 4/21/2017 Revision date: 04/14/2017 Version: 2.2 P GHS SDS Page 1 of 8

## Safety Data Sheet



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

#### 3.2. Mixtures

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-ethylhexyl 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.

## **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

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: Consult

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 effects, 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 repeated

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.

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

No additional information available

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

## 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.

Date of issue: 4/21/2017 Revision date: 04/14/2017 Version: 2.2 P GHS SDS Page 2 of 8

## Safety Data Sheet



5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Explosion hazard : 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.

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 measures**

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.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

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 storage**

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, including any incompatibilities

Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be

followed.

Storage conditions : Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away

from: sparks, open flames, excessive heat.

Incompatible products : Oxidizing agent.
Incompatible materials : Sources of ignition.

Heat-ignition : KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.

Information 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 Revision date: 04/14/2017 Version: 2.2 P GHS SDS Page 3 of 8

# Safety Data Sheet



bromacil (314-40-9	9)	
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (Bromacil; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
naphthalene (91-2	0-3)	
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 unde uncommon or unlikely routes or levels of exposure)
OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m³
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/m³)	240 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
2-ethylhexyl 2,4-di	chlorophenoxyacetate (1928-43-4)	
Not applicable		
Petroleum Solvent	t (68476-34-6)	
Not applicable		

### 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 : Fuel oil odor
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : 145 °F

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosion limits : No data available

Explosive properties : Heating may cause a fire or explosion.

Oxidizing properties : No data available Vapor pressure : No data available

Date of issue: 4/21/2017 Revision date: 04/14/2017 Version: 2.2 P GHS SDS Page 4 of 8

## Safety Data Sheet

SLARE

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 : No data available Log Kow No data available Auto-ignition temperature Decomposition temperature : No data available : No data available Viscosity

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/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 avoid

Skin corrosion/irritation

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

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

bromacil (314-40-9)		
LD50 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-dichlorophenoxyacetate (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 Revision date: 04/14/2017 Version: 2.2 P GHS SDS Page 5 of 8

: Causes skin irritation.

## Safety Data Sheet

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
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	
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 : 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 : 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. Harmful in contact with skin.

> 100 mg/l

100 mg/l daphnid

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;Ingestion;Inhalation

## **SECTION 12: Ecological information**

12.1. Toxicity

bromacii (314-40-9)	
LC50 fish 1	75 mg/l (I C50: 48 h

LC50 IISH I	75 High (LC50, 46 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

## 12.2. Persistence and degradability

NOEC chronic fish

NOEC chronic crustacea

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 O₂/g substance
Chemical oxygen demand (COD)	0.22 g O₂/g substance
ThOD	2.99 g O₂/g substance

### 12.3. 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 Revision date: 04/14/2017 Version: 2.2 P GHS SDS Page 6 of 8

# Safety Data Sheet



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 (1928-43-4)		
Log Pow	5.78 (Experimental value)	

## **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

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

Additional information : Clean up even minor leaks or spills if possible without unnecessary risk. Handle empty

containers with care because residual vapors are flammable.

## **SECTION 14: Transport information**

**Department of Transportation (DOT)** 

Transport document description : NA1993 Combustible liquid, n.o.s. (Aliphatic Hydrocarbon), 3, III

UN-No.(DOT) : NA1993

Proper Shipping Name (DOT) : Combustible liquid, n.o.s.

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT 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

DOT Packaging Exceptions (49 CFR : 150

173.xxx)

DOT Quantity Limitations Passenger : 60 L

aircraft/rail (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft : 220 L

only (49 CFR 175.75)

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 exception

found under 49 CFR 173.150.

**ADR** 

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

### **SECTION 15: Regulatory information**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

bromacil	CAS-No. 314-40-9	0.93 - 1.03%
naphthalene	CAS-No. 91-20-3	0 - 0.25%
2-ethylhexyl 2,4-dichlorophenoxyacetate	CAS-No. 1928-43-4	0.98 - 1.20%
Glycol Ether EB	CAS-No. 111-76-2	10 - 30 %
bromooil (214 40 0)		

bromacil (314-40-9)

Subject to reporting requirements of United States SARA Section 313

naphthalene (91-20-3)

Date of issue: 4/21/2017 Revision date: 04/14/2017 Version: 2.2 P GHS SDS Page 7 of 8

## Safety Data Sheet



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

## **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
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 : 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.

Date of issue: 4/21/2017 Revision date: 04/14/2017 Version: 2.2 P GHS SDS Page 8 of 8