## SAFETY DATA SHEET



Section 1. Identification	
GHS product identifier	: Sonar <sup>®</sup> RTU
Other means of identification	: Not available.
EPA Registration No.	: 67690-48
Relevant identified uses o	f the substance or mixture
Aquatic herbicide.	
Supplier's details	: SePRO Corporation 11550 North Meridian Street Suite 600 Carmel, IN 46032 U.S.A. Tel: 317-580-8282 Toll free: 1-800-419-7779 Fax: 317-580-8290 Monday - Friday, 8am to 5pm E.S.T. www.sepro.com
Emergency telephone number (with hours of operation)	: INFOTRAC - 24-hour service 1-800-535-5053

operation)

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

Section 2.	Hazards	identification
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OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2B AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
<u>GHS label elements</u> Hazard pictograms	
Signal word	: Warning
Hazard statements	: H332 - Harmful if inhaled. H320 - Causes eye irritation. H412 - Harmful to aquatic life with long lasting effects.

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## Section 2. Hazards identification

#### **Precautionary statements**

Prevention	<ul> <li>P280 - Wear protective gloves.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid accidental release to the environment.</li> <li>P261 - Avoid breathing vapor.</li> </ul>
Response	<ul> <li>P264 - Wash hands thoroughly after handling.</li> <li>P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical attention.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

## Section 3. Composition/information on ingredients

Substance/mixture

- : Mixture
- Other means of identification
- : Not available.
- % **CAS** number Ingredient name 60 - 90 10 - 30 Proprietary ingredient 1 Proprietary ingredient 3 59756-60-4 Fluridone 3.8 Proprietary ingredient 2 1 - 5 Proprietary ingredient 7 0.1 - 1 Proprietary ingredient 6 0.1 - 1 \_ Proprietary ingredient 5 0.1 - 1 Proprietary ingredient 4 0.01 - 0.1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. If irritation persists, get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## Section 4. First aid measures

Skin contact	: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact :	Causes eye irritation.	
Inhalation :	Harmful if inhaled.	
Skin contact :	No known significant effects or critical hazards.	
Ingestion :	No known significant effects or critical hazards.	
Over-exposure signs/symptoms		
Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation :	No known significant effects or critical hazards.	
Skin contact :	No known significant effects or critical hazards.	
Ingestion :	No known significant effects or critical hazards.	

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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## Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). May be harmful to the environment if accidentally released in large quantities.
Methods and materials for con	ntainment and cleaning up
Spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see

Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

# Precautions for safe handling Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid accidental release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty

Advice on general occupational hygiene
 Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.



## Section 7. Handling and storage

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits	
Proprietary ingredient 3		AIHA WEEL (United States, 10/2011).	
Fluridone		TWA: 10 mg/m <sup>3</sup> 8 hours. None.	
Proprietary ingredient 2		None.	
Proprietary ingredient 4		None.	
Appropriate engineering controls		tilation. Use process enclosures, local exhaust ventilation or o keep worker exposure to airborne contaminants below any imits.	
Environmental exposure	: Emissions from ventilation of	or work process equipment should be checked to ensure	
controls	they comply with the require	ements of environmental protection legislation.	
Individual protection measur			
Hygiene measures	eating, smoking and using t Appropriate techniques sho	face thoroughly after handling chemical products, before the lavatory and at the end of the working period. uld be used to remove potentially contaminated clothing. g before reusing. Ensure that eyewash stations and safety prkstation location.	
Eye/face protection	assessment indicates this is gases or dusts. If contact is	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.	
Skin protection			
Hand protection	worn at all times when hand necessary. Considering the during use that the gloves a noted that the time to break glove manufacturers. In the	ous gloves complying with an approved standard should be lling chemical products if a risk assessment indicates this is e parameters specified by the glove manufacturer, check ire still retaining their protective properties. It should be through for any glove material may be different for different e case of mixtures, consisting of several substances, the s cannot be accurately estimated.	
Body protection		ent for the body should be selected based on the task being olved and should be approved by a specialist before	
Other skin protection		ny additional skin protection measures should be selected formed and the risks involved and should be approved by a his product.	
Respiratory protection	: Based on the hazard and per appropriate standard or cert	otential for exposure, select a respirator that meets the tification. Respirators must be used according to a am to ensure proper fitting, training, and other important	
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## Section 9. Physical and chemical properties

#### **Appearance**

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Physical state	: Liquid. [Viscous.]
Color	: Whitish. Tan.
Odor	: Musty. Menthol-like.
Odor threshold	: Not available.
рН	: 6.2
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.1
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (room temperature): 2.81 cm <sup>2</sup> /s (281 cSt)
Flow time (ISO 2431)	: Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid freezing.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials and acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sonar <sup>®</sup> RTU	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rabbit	>2.07 mg/L >5000 mg/kg >5000 mg/kg	4 hours - -

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sonar® RTU	Skin - Primary dermal irritation index (PDII)	Rabbit	0.5	-	-
	Eyes - Mild irritant	Rabbit	-	-	-

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Sonar <sup>®</sup> RTU	skin	Guinea pig	Not sensitizing
Mutagenicity	-		
Conclusion/Summary	Based on active in	gredients: no known evidence.	
<b>Carcinogenicity</b>			
Conclusion/Summary	Based on active in	gredients: no known evidence.	
Reproductive toxicity			
Conclusion/Summary	Based on active in	gredients: no known evidence.	
<b>Teratogenicity</b>			
There is no data available.			
<u>Neurotoxicity</u>			
-	Based on active in	gredients: no known evidence.	
<u>Immunotoxicity</u>			
Conclusion/Summary	Based on active in	gredients: no known evidence.	
Specific target organ toxicit	<u>y (single exposure)</u>		
There is no data available.			
Specific target organ toxicit	<u>y (repeated exposu</u>	<u>re)</u>	
There is no data available.			
Aspiration hazard			
There is no data available.			
nformation on the likely routes of exposure	: Dermal contact. I	Eye contact. Inhalation. Ingestion	
Potential acute health effects			
Eye contact	: Causes eye irrita	tion.	
Inhalation	: Harmful if inhaled	J.	
Skin contact	: No known signific	cant effects or critical hazards.	
Ingestion		cant effects or critical hazards.	

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## Section 11. Toxicological information

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	-
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health effe	ects
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

There is no data available.

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Fluridone	EC50 3 mg/L	Daphnia - Daphnia magna	48 hours
	LC50 8 mg/L	Crustaceans - Eucyclops sp.	48 hours
	LC50 >5.2 mg/L	Fish - Cyprinodon variegatus	96 hours
	LC50 >6.5 mg/L	Fish - Pimephales promelas	96 hours
	Chronic NOEC 0.84 mg/L	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.43 mg/L	Fish - Oncorhynchus tshawytscha	75 days

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Proprietary ingredient 3	-1.07	-	low
Fluridone	3.16		low

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## Section 12. Ecological information

#### Mobility in soil

Soil/water partition
coefficient (Koc)

: Not available.

#### **Other adverse effects** : No known significant effects or critical hazards.

Section 13. Disposal considerations		
Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.	

## Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

**AERG** : Not applicable.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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## Section 15. Regulatory information

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U.S. Federal regulations	:	TSCA 8(a) PAIR: Prop	prietary ir	ngredient 5			
		TSCA 8(a) CDR Exer	npt/Parti	al exemption:	Not determine	ed	
		United States invent	ory (TSC	A 8b): All com	ponents are li	sted or exemp	oted.
Clean Air Act Section 112	:	Not listed					
(b) Hazardous Air Pollutants (HAPs)							
Clean Air Act Section 602 : Not listed Class I Substances							
Clean Air Act Section 602 Class II Substances	:	Not listed					
DEA List I Chemicals (Precursor Chemicals)	:	Not listed					
DEA List II Chemicals (Essential Chemicals)	:	Not listed					
<u>SARA 302/304</u>							
Composition/information	on	<u>ingredients</u>					
No products were found.							
SARA 304 RQ	:	Not applicable.					
<u>SARA 311/312</u>							
Classification	Classification : Immediate (acute) health hazard						
Composition/information on ingredients							
Name			Fire	Sudden	Reactive	Immediate	Delayed

Name	hazard	Sudden release of pressure		Immediate (acute) health hazard	Delayed (chronic) health hazard
Fluridone	No.	No.	No.	Yes.	No.

#### <u>SARA 313</u>

There is no data available.

#### State regulations

- Massachusetts
- : None of the components are listed.
- New York
- : None of the components are listed.

- : The following components are listed: Proprietary ingredient 3
- New Jersey Pennsylvania
- : The following components are listed: Proprietary ingredient 3
- California Prop. 65

No products were found.

## Section 16. Other information

#### Procedure used to derive the classification

Classification		Justification
ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2B AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category		On basis of test data On basis of test data Calculation method Calculation method
AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Categor		

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## Section 16. Other information

#### <u>History</u>

Date of issue mm/dd/yyyy	: 06/30/2017
Date of previous issue	: 05/01/2016
Version	: 6
Prepared by	: KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.