

SECTION 1: Product and Company Identification**1.1. Product identifier**

Trade name : OBELISK
Product code : EPA Reg. No. 83100-33-83979

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/preparation : Miticide/Insecticide

1.2.2. Uses advised against

Consumer/household use

1.3. Details of the supplier of the safety data sheet

Rotam North America, Inc.
4900 Koger Blvd. Suite# 140
Greensboro, NC 27407
Phone: 1-(866) 927-6826 (toll free); 1-(336) 346-8802
msds@rotam.com

1.4. Emergency telephone number

Emergency number : (800)-424-9300 (CHEMTREC)
(800)-222-1222 (National Poison Information Center)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification**

Classification of OBELISK

<u>Hazard Class</u>	<u>Category</u>	<u>Hazard Statement</u>
Acute Toxicity – Oral	4	H302
Acute Toxicity – Inhalation	4	H332
Acute Toxicity – Dermal	5	H313
STOT Repeated Exposure	2	H373
Aquatic Toxicity -Chronic	1	H410

Full text of H-phrases: see table in "Label elements" below

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**GHS Labeling Elements**

Hazard pictograms (CLP)



OBELISK

Safety Data Sheet

GHS Labeling Elements

Signal word	: WARNING
Hazard statements	: H302 – Harmful if swallowed H332 – Harmful if inhaled H313 – May be harmful in contact with skin H373 – May cause damage to central nervous system through prolonged or repeated exposure H410 – Very toxic to aquatic life with long lasting effects
Precautionary statements (prevention)	: P264 – Wash hands thoroughly after handling P270 – Do not eat, drink or smoke when using this product P260 – Do not breathe mists or spray P271 – Use only outdoors or in a well-ventilated area P273 – Avoid release to the environment
Precautionary statements (response)	: P301+P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P330 – Rinse mouth P304+340, P312 – IF INHALED: 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. P302+P312 – IF ON SKIN: Call a POISON CENTER or doctor/physician if you feel unwell. P391 – Collect spillage
Precautionary statements (disposal)	: P501 – Dispose of contents/container in accordance with federal, state and local regulations.

SECTION 3: Composition/information on ingredients

Name	Product identifier	%/wt.	g/L
Imidacloprid	(CAS No.) 138261-41-3	26.8	300
Abamectin	(CAS No.) 71751-41-2	2.5	28
Other Ingredients	NA	70.7	

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED	: Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF IN EYES	: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice if irritation develops or persists.
IF SWALLOWED	: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person

OBELISK

Safety Data Sheet

First-aid measures – general

Early sign of intoxication include dilation of pupils, muscular in-coordination and muscular tremors. Toxicity follows accidental ingestion of the concentrate and can be minimized by inducing vomiting within one-half hour of exposure. If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures as indicated by clinical signs, symptoms and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Product is in an aqueous solution and is not flammable. If there is a fire in the area, cool containers with water to avoid overheating or rupture. For dried material, use foam, water spray, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet. (Water contamination risk from runoff)

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Hazardous decomposition products may be released during prolonged heating like smoke, hydrogen chloride, organochlorine compounds, oxides of carbon, nitrogen oxides (NO_x).
- Explosion hazard : Product is not explosive.
- Reactivity : The product is stable at normal handling- and storage conditions.

5.3. Advice for firefighters

- Firefighting instructions : Prevent runoff from entering drains, sewers or waterways. To fight large fires, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full-face piece operated in the positive pressure/demand mode. Full firefighting turnout gear (bunker gear): Any air respirator supplied with full face piece and operated in a pressure-demand or other positive pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full face piece.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Wear appropriate personal protective equipment (PPE): Eye and face protection, coveralls, gloves, boots. Avoid misting conditions during cleanup. Absorb with sand or inert material. Put in appropriate container and dispose according to Local, State or Federal regulations. Keep spills away from drinking supplies. Clean contaminated floors and objects thoroughly, observing environmental regulations. Read label for additional information.

6.1.1. For non-emergency personnel

- Protective equipment : Wear appropriate personal protective equipment (PPE): Eye and face protection, coveralls, gloves, boots.
- Emergency procedures : Avoid contact with spilled material

6.1.2. For emergency responders

- Protective equipment : Wear appropriate personal protective equipment (PPE): Eye and face protection, coveralls, gloves, boots.

OBELISK

Safety Data Sheet

6.2. Environmental precautions

Prevent material from entering sewers, waterways, or low areas. Do not allow material to contaminate water systems.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate air. Cleanup personnel require protective clothing and respiratory protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store in a cool, dry place. Keep separated from incompatible substances. Store in a cool and well-ventilated room. Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Personal protective equipment

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: If vapors or mists are present, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

8.2. Exposure controls

Exposure limits have not been established for the active ingredients in this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Off-white
Odor : Mild characteristic
Odor threshold : No data available
pH (1%) : 7.92
Relative evaporation rate (butyl acetate=1) : No data available

OBELISK

Safety Data Sheet

Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable – Aqueous solution
Self-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non- flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density/bulk density	: 1.12 g/mL at 20 °C
Solubility	: Soluble in water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 346 cP at 20 °C
Viscosity, dynamic	: 387 cSt at 20 °C
Explosive properties	: Not explosive
Oxidizing properties	: No oxidizing properties
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling- and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Protect from heat.

10.5. Incompatible materials

Oxidizers, strong acids

10.6. Hazardous decomposition products

May produce gases such as hydrogen chloride, organochlorine products, and oxides of carbon and nitrogen under extreme heat or fire conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity data for OBELISK are provided below:

OBELISK	
LD50 oral rat	310 mg/kg
LD50 dermal rabbit	>2000 mg/kg

OBELISK

Safety Data Sheet

OBELISK

LC50 inhalation rat (4 h) 1.23 mg/L (equivalent to 4.92 mg/L – 1 hour)

Irritation : Skin – Not a skin irritant. Eye – Mild irritant

Corrosivity : Not corrosive to eyes or skin

Sensitization : Not a skin sensitizer

Chronic toxicity data for OBELISK is not available. Data for active ingredients is provided below:

Imidacloprid

- Sub-chronic toxicity : In a 3-week dermal toxicity study, rabbits treated with imidacloprid showed no local or systemic effects at levels up to and including 1000 mg/Kg, the limit dose.
In a 4-week inhalation study, rats exposed to high concentrations of imidacloprid exhibited decreased body weight gains and changes in clinical chemistries and organ weights.
- Chronic toxicity : In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroid and/or liver.
- Carcinogenicity : Imidacloprid is not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.
- Reproductive & Developmental toxicity : REPRODUCTION: In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.
DEVELOPMENTAL TOXICITY: In developmental toxicity studies in rats and rabbits, there was no evidence of an embryonic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.
- Neurotoxicity : In acute and sub-chronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes observed in the neural tissues.
- Mutagenicity : The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

Abamectin

- Carcinogenicity : Abamectin is not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.
- Reproductive & Developmental toxicity : Reproductive toxin in animal studies only at doses acutely toxic to the maternal animal
- Neurotoxicity : Abamectin affects the central nervous system in animals
- Mutagenicity : Abamectin is not genotoxic or mutagenic.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological Summary

OBELISK is highly toxic to bees, birds and aquatic organisms. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Ecotoxicity data

Ecotoxicity data are not available for OBELISK. Active ingredient data is given below:

OBELISK

Safety Data Sheet

Imidacloprid	
Fish (Rainbow Trout 96 hr.)	LC50: 211 mg/L
Daphnia (48 hr.)	EC50: 85 mg/L
Mysid (96 hr.)	EC50: 0.038 ppm
Acute toxicity to Honey bee	LD50: 0.078 µg/bee (highly toxic to bees)
Acute toxicity bobwhite Quail, 8 day	152 mg/kg

Abamectin	
Fish (Bluegill and Rainbow Trout 96 hr.)	LC50: 0.0036 mg/L (Trout) LC50: 0.0096 mg/L (Bluegill)
Daphnia (48 hr.)	EC50: 0.00037 mg/L
Acute toxicity to Honey bee	LD50 0.002 µg/bee (Highly toxic to bees)
Acute toxicity mallard ducks, 8 day	383 ppm
Acute toxicity bobwhite Quail, 8 day	3102 ppm

Ecological Information

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

12.2. Persistence and degradability

This product is not readily biodegradable. Hydrolysis half-life of imidacloprid is greater than 30 days at pH 7 and 25 deg C. The aqueous photolysis half-life is less than 3 hours. The soil surface photolysis of imidacloprid has a half-life of 39 days, and in soil, the half-life ranged from 26-229 days.

12.3. Bioaccumulative potential

Aquatic hydrolysis, volatilization, adsorption to sediments, and bioconcentration are not expected to be significant.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Pesticide disposal: Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

Container disposal: Contaminated packaging material should be treated as the product. (See label for proper disposal methods):

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

OBELISK

Safety Data Sheet

SECTION 14: Transport information

Not Regulated by US DOT or Canadian TDG for ground shipment

Ground transport

Not Regulated by US DOT

Not Regulated by Canadian TDG

Transport by sea (IMDG)

UN 3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Abamectin); 9; III;
Marine Pollutant

Air transport (IATA)

UN 3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Abamectin); 9; III

Additional Air, Sea and International Transportation Information

UN-No. : 3082
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Imidacloprid, Abamectin)
Transport document description : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Imidacloprid, Abamectin), 9, III
Class (UN) : 9
Hazard labels (UN) : 9



Packing group (UN) : III
Marine Pollutant (Y/N) : Y
Dangerous for the environment :



SECTION 15: Regulatory information

FIFRA Information:

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:

Signal word : WARNING
Hazard statements : May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled.
Precautionary statements : Do not get in eyes, on skin or on clothing. Avoid breathing spray mist. Wear chemical resistant gloves. 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.

SARA 313 Regulated Chemical(s): Not applicable

Title III hazard classification:

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire: No

Reactivity/Physical hazard: No

Pressure: No

OBELISK

Safety Data Sheet

CERCLA/DOT Reportable Quantities (RQ)

Not applicable.

Canadian Regulatory Information:

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: D2B – Toxic

SECTION 16: Other information

SDS US

***Disclaimer:** The information provided by Rotam North America, Inc. contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.*