ACRAMITE[®] -4SC according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/07/2015 Revision	date: 09/23/2016 Supersedes: 06/22/2016 Version: 2.1
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: ACRAMITE [®] -4SC
Product code	: 40000004589
Other means of identification	: EPA Reg. No. 400-514
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Recommended use	: Insecticides, acaricides and products to control other arthropods, Plant Protection products
Restrictions on use	: Agriculture, For professional users only
1.3. Details of the supplier of	the safety data sheet
MacDermid Agricultural Solutions, In 245 Freight Street Waterbury, CT 06702 - USA T 1-866-761-9397 sds@arysta.com	с.
1.4. Emergency telephone nu	Imber
Emergency number	 FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA: 1-866-303-6952 or +1-651-603-3432 FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) call CHEMTREC: 1-800-424-9300 or +1-703-527-3887

SECT	SECTION 2: Hazard(s) identification					
2.1.	Classification of the substance or mixture					
GHS-US	S classification					
Constition	ation Olin Category 4					

Sensitisation — Skin, Category 1	H317
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Full text of H statements : see section 16

2.2. Label elements			
GHS-US labelling			
Hazard pictograms (GHS-US)	CHS07 GHS08	GHS09	
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H317 - May cause an allergic s H373 - May cause damage to o H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life	organs through prolonged or repeated exposure	
Precautionary statements (GHS-US)	P273 - Avoid release to the em P280 - Wear protective gloves, P302 + P352 - If on skin: Wash P314 - Get medical advice/atte P321 - Specific treatment (see P333 + P313 - If skin irritation of P363 - Wash contaminated clo P391 - Collect spillage	hing must not be allowed out of the workplace vironment protective clothing with plenty of soap, water ention if you feel unwell First aid measures on this label) or rash occurs: Get medical advice/attention	
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
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SECTION 3: Composition/information on ingredients 3.1. **Substance** Not applicable 3.2. **Mixture** Name **Product identifier** % **GHS-US** classification Skin Sens. 1, H317 STOT RE 2, H373 (CAS No) 149877-41-8 40 - 50 Bifenazate Aquatic Acute 1, H400 Aquatic Chronic 1, H410

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Artificial respiration and/or oxygen if necessary.
First-aid measures after skin contact	: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Get medical advice/attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: May cause damage to organs through prolonged or repeated exposure.
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Water fog. alcohol resistant foam.
Unsuitable extinguishing media	: Water spray.
5.2. Special hazards arising from the sul	bstance or mixture
Fire hazard	: Burning produces irritating, toxic and noxious fumes.
Reactivity	: No dangerous reactions known.
5.3. Advice for firefighters	
Firefighting instructions	: Use extinguishing media appropriate for surrounding fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	: Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.
SECTION 6: Accidental release meas	sures
	uipment and emergency procedures
General measures	: Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Do not breathe aerosol.
6.1.1. For non-emergency personnel	
Protective equipment	: Refer to section 8.2.
	: Evacuate unnecessary personnel.
Emergency procedures	
Emergency procedures 6.1.2. For emergency responders	
	: Refer to section 8.2.
6.1.2. For emergency responders	
6.1.2. For emergency responders Protective equipment	: Refer to section 8.2.

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6.3. Methods and mater	al for containment and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Absorb and/or contain spill with inert material, then place in suitable container.
6.4. Reference to other	sections
Section 13: disposal informatio	n. Section 7: safe handling. Section 8: personal protective equipment.
SECTION 7: Handling a	
ocorron 7. Handling a	
7.1. Precautions for safe	e handling
Precautions for safe handling	: Avoid contact with skin, eyes and clothing. Use only outdoors or in a well-ventilated area. Do not breathe mist, vapours.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated

		other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2.	Conditions for safe storage, includin	g any incompatibilities
Storage	e conditions	: Do not store near food, foodstuffs, drugs, or potable water supplies. Keep container tightly

Storage conditions	: Do not store near food, foodstuffs, drugs, or potable water supplies. Keep container tightly closed. Store at room temperature.
Incompatible products	: Strong bases. Strong acids. Strong oxidizers.
Heat and ignition sources	: Keep away from heat, sparks and flame.
Prohibitions on mixed storage	: Incompatible materials.
Storage area	: Store in dry, cool, well-ventilated area. Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Bifenazate (149877-41-8)

Not applicable

8.2. Exposure controls

: Mechanical ventilation is recommended. Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Emergency safety showers should be available in the immediate vicinity of any potential exposure.
: Avoid all unnecessary exposure.
: Wear suitable gloves resistant to chemical penetration.
: Safety glasses with side shields.
: Long sleeved protective clothing.
: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. If needed, use an air-purifying respirator with organic vapor cartridges and a dust/mist prefilter.
: Prevent leakage or spillage. Prevent contaminated water run-off.
: Keep out of reach of children.
: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical an	d che	mical properties	
Physica	al state	:	Liquid	
Colour		:	Off-white tan	
Odour		:	Sweet	
Odour t	threshold	:	No data available	
рН		:	5 - 9	
Melting	point	:	No data available	
Freezin	ng point	:	No data available	
Boiling	point	:	> 100 °C	
Flash p	point	:	No data available	
Relative	e evaporation rate (butylacetate=1)	:	No data available	

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	y, maron 20, 2012 / Raido and Rogalatono			
Flammability (solid, gas)	: No data available			
Vapour pressure	: No data available			
Relative vapour density at 20 °C	: No data available			
Relative density	: 1.1			
Density	: 1.1 g/cm ³ @ 25 °C			
Solubility	: slightly soluble.			
Log Pow	: No data available			
Auto-ignition temperature	: >400 °C			
Decomposition temperature	: No data available			
Viscosity, kinematic	: No data available			
Viscosity, dynamic	: No data available			
Explosive limits	: No data available			
Explosive properties	: Product is not explosive.			
Oxidising properties	: No oxidizing proprerties.			
9.2. Other information				
No additional information available				
SECTION 10: Stability and reactivity				
10.1. Reactivity				
No dangerous reactions known.				
10.2. Chemical stability				
Stable under normal conditions.				
10.3. Possibility of hazardous reactions				
Llozordovo nakrmarization will not oppur				

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Heat.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO2). Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Likely routes of exposure	: Inhalation; Skin and eye contact
Acute toxicity	: Not classified
ACRAMITE [®] -4SC	
LD50 oral rat	> 2000 mg/l
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 1.94 mg/l/4h
Bifenazate (149877-41-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified
	(Not irritating to rabbits on cutaneous application)
Serious eye damage/irritation	: Not classified
	(Not irritating to rabbits on ocular application)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
	(Positive. Guinea pig)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Bifenazate (149877-41-8)	
NOAEL (chronic, oral, animal/male, 2 years)	0.001 mg/kg bodyweight rat
NOAEL (chronic, oral, animal/female, 2 years)	0.0012 mg/kg bodyweight rat
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Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Bifenazate (149877-41-8)	
LOAEL (oral, rat, 90 days)	13.8 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	 > 15 mg/kg bodyweight/day early embryonic development; >200 mg/kg bodyweight/day Teratogenicity (rabbit, female)
Additional information	Affected organs: liver, Thymus and spleen, bone marrow, lymphatic node, kidneys, adrenal glands
Aspiration hazard	: Not classified
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.
Bifenazate (149877-41-8)	
LC50 fish 1	0.58 mg/l 96 h Lepomis macrochirus
LC50 other aquatic organisms 1	0.42 mg/l 96 h Crassostrea virginica
EC50 Daphnia 1	0.5 mg/l 48 h
ErC50 (algae)	> 2.02 mg/l 96 hSelenastrum capricornutum
ErC50 (other aquatic plants)	1.4 mg/l 96 h Navicula pelliculosa
NOEC (acute)	0.25 mg/l 96 h Selenastrum capricornutum
NOEC chronic fish	0.017 mg/l 87 d Oncorhynchus mykiss
NOEC chronic crustacea	0.15 mg/l 21 d Daphnia magna
NOEC chronic algae	> 3.82 mg/l 7 d Lemna gibba

12.2. Persistence and degradability

ACRAMITE [®] -4SC		
Persistence and degradability	May cause long-term adverse effects in the environment.	
Bifenazate (149877-41-8)		
Persistence and degradability	Not readily biodegradable.	
12.3. Bioaccumulative potential		

ACRAMITE [®] -4SC		
Bioaccumulative potential	Not established.	
Bifenazate (149877-41-8)		
Log Pow	3.4 @ 25 °C	
12.4. Mobility in soil		
ACRAMITE [®] -4SC		
Ecology - soil	No additional information available.	
12.5. Other adverse effects		

12.5. Other adverse Other information

: No additional information available.

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Sewage disposal recommendations :	Do not dispose of waste into sewer.	
Waste disposal recommendations :	Dispose in a safe manner in accordance with local/national regulations.	
Additional information :	Do not allow into drains or water courses.	

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Non-bulk (<= 119 gallons / 450 liters) Not regulated

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according to Federal Register / Vol. 77, No. 58 / Mond Bulk (>119 gallons / 450 liters):	
Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (Bifenazate), 9, III
UN-No.(DOT)	: UN3082
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s. (Bifenazate)
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
Dangerous for the environment	Yes
Marine pollutant	: Yes
	×
Additional information	
Emergency Response Guide (ERG) Number	: 171
Other information	: No supplementary information available.
Transport by sea IMDG	
Transport hazard class(es) (IMDG)	: 9
Marine pollutant	: Yes
UN-No. (IMDG)	: 3082
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenazate), 9, III, MARINE POLLUTANT
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Air transport	
ΙΑΤΑ	
Transport hazard class(es) (IATA)	
Marine pollutant	: Yes
UN-No. (IATA)	: 3082
Transport document description (IATA)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenazate), 9,

Class (IATA) Packing group (IATA)

EN (English)

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- : 9 Miscellaneous Dangerous Goods
- : III Minor Danger

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SECTION 15: Regulatory information

15.1. US Federal regulations

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

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Bifenazate (149877-41-8)	
EPA TSCA Regulatory Flag	Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.:

EPA Registration Number	400-514
FIFRA Signal Word	CAUTION
FIFRA Hazard Statement	Harmful if swallowed. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.
FIFRA Other	This pesticide is toxic to birds, estuarine/marine invertebrates, and fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not use or store near heat or open flame.

15.2. International regulations

CANADA	
ACRAMITE [®] -4SC	
WHMIS Classification	No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other informat	tion
Revision date	: 09/23/2016
Data sources	: ACGIH (American Conference of Government Industrial Hygienists).
	European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database.
	Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
	Manufacturer Information.
	National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
	NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978.
	OSHA 29CFR 1910.1200 Hazard Communication Standard.
	TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.
Other information	: None.
Full text of H-statements:	
H317	May cause an allergic skin reaction

H317	May cause an allergic skin reaction
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

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	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
IFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.
Indiaction of changes:	

Indication of changes: Product identifier.

SDS Prepared by:

The Redstone Group, LLC. 6077 Frantz Rd Suite 206 Dublin, Ohio, USA 43016 614.923.7472 www.redstonegrp.com

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