

SAFETY DATA SHEET

1. Identification

Product identifier	Force® 3G SmartBox® Insecticide	
Other means of identification		
SDS number	321	
Product registration number	100-1075-5481	
Recommended use	Insecticide	
Recommended restrictions	No other uses are advised. Keep out of the Reach of Children!	
EPA Registration number	EPA: 100-1075-5481	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	AMVAC Chemical Corporation	
Address	4695 MacArthur Court	
	Suite 1200	
Talaukana	Newport Beach, CA 92660	040 000 4000
Telephone	AMVAC Chemical Corp	949-260-1200
Website	AMVAC Chemical Corp	949-260-6270(FAX)
E-mail	CustServ@amvac.com	
Emergency phone number	Medical	888-681-4261
Emergency phone number	CHEMTREC®	800-424-9300
	(USA+Canada)	000 121 0000
	Product Use	888-462-6822
	CHEMTREC® (Outside USA)	+1-703-527-3887

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Sensitization, skin	Category 1B
	Carcinogenicity	Category 1A
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	

Label elements

Signal word

Hazard statement



Harmful if swallowed. Harmful if inhaled. May cause an allergic skin reaction. May cause cancer by inhalation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Avoid breathing dust. Do not get this material in contact with skin. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment.
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
Storage	Store locked up. Store away from incompatible materials.
Disposal	SmartBox® containers should be returned to the manufacturer by following the directions on the label. Dispose of waste and residues in accordance with all applicable regulatory requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	This 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 in section 15. The pesticide label also includes other important information, including directions for use.

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Tefluthrin	2,3,5,6-tetrafluoro-4-methylbenzyl-(Z)-(1R S,3RS)-3-(2-chloro-3,3,3-trifluoro-1-prope nyl)-2,2-dimethylcyclopropanecarboxylate Tefluthrin	79538-32-2	3
Carrier		1318-93-0	80 - 96
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a po artificial respiration if needed. Call a poison center		
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.		
Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.		
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. Ra	ash.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat sy under observation. Symptoms may be delayed.	mptomatically. Keep victi	m warm. Keep victim
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon d	oxide (CO2).	
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		

6 Assidental release mass	
General fire hazards	No unusual fire or explosion hazards noted.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for	Prevent entry into waterways, sewer, basements or confined areas.
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Shovel the material into waste container. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Additional components	Туре	Value	Form
free respirable Crystalline (quartz) Silica (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 CF	R 1910.1000)		
Additional components	Туре	Value	Form
Nuisance Dust	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
free respirable Crystalline (quartz) Silica (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
US. ACGIH Threshold Limi	t Values		
Additional components	Туре	Value	Form
free respirable Crystalline (quartz) Silica (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Additional components	Туре	Value	Form
free respirable Crystalline (quartz) Silica (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
ogical limit values	No biological exposure limits noted for the ingr	edient(s).	
propriate engineering trols	If engineering measures are not sufficient to maintain concentrations of dust particulates below t Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.		

Individual protection measures, such as personal protective equipment

Eye/face protection	If contact is likely, safety glasses with side shields are recommended.
Skin protection Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection Thermal hazards	In case of insufficient ventilation, wear suitable respiratory equipment. Not available.
General hygiene considerations	Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

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Appearance	Tan-brown solid granules
Physical state	Solid.
Form	Solid. Dry flowable granules.
Color	Tan-brown
Odor	Slight musty odor
Odor threshold	Not available.
рН	5.3 (1% slurry)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not applicable
Flash point	Not available.
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	6.50E-05 mm Hg @ 20°C (a.i.)
Vapor density	Heavier than air
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not appreciably soluble in water
Solubility (solvents)	The a.i. is soluble in aromatic solvents
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	38 - 45 lb/ft3 (untamped)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known. Emits hazardous fumes and smoke of unknown composition when heated to decomposition or burned.

11. Toxicological information

Information on likely	routes of exposure
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Inhalation	Harmful if inhaled. May cause cancer by inhalation.	
Skin contact	May cause an allergic skin reaction.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Harmful if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash.	

Information on toxicological effects

Acute toxicity	Harmful if inhaled. Harmf	ıl if swallowed.
Product	Species	Test Results
Force 3G		
acute		
dermal		
LD50	Rabbit	> 2000 mg/kg
inhalation		
LC50	Rat	1.77 mg/L, 4 hr dust
oral		
LD50	Rat	969 mg/kg
Skin corrosion/irritation	psion/irritation Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitiz	er.
Skin sensitization	May cause an allergic ski	n reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
by both IARC and NTP. present at less than 1%		ause cancer. Respirable crystalline silica is listed as being carcinogenic rior to incorporation of the active ingredient(s) onto the carrier It is f the carrier in the product. Incorporation of the active ingredient(s) is alline silica from the respirable range of particles.
IARC Monographs. Overall Evaluation of Carcinogenicity		
free respirable Crystalline (CAS 14808-60-7)	(quartz) Silica	1 Carcinogenic to humans.
OSHA Specifically Regulated	d Substances (29 CFR 19	10.1001-1053)
free respirable Crystalline (CAS 14808-60-7)	(1)	Cancer
US. National Toxicology Pro	gram (NTP) Report on Ca	rcinogens
free respirable Crystalline (CAS 14808-60-7)	(quartz) Silica	Known To Be Human Carcinogen.
Reproductive toxicity	This product is not expec	ed to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	No specific target organ t	oxicity is expected after single exposure.
Specific target organ toxicity - repeated exposure	No specific target organ t	exicity is expected after repeated exposure.
Aspiration hazard	Not an aspiration hazard.	

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Components		Species	Test Results
Tefluthrin (CAS 79538-32-2)			
Acute			
Other	LD50	Duck	4190 mg/kg, 14 days
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	0.07 ppb, 48 hours
Fish	LC50	Rainbow Trout (oncorhynchus mykiss)	0.06 ppb, 96 hours
Persistence and degradability	No data is ava	ailable on the degradability of any ingredie	nts in the mixture.
Bioaccumulative potential			
Partition coefficient n-octanol / water (log Kow) Tefluthrin 6.5			
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideratio	ns		
Disposal instructions	Return the damaged SmartBox [®] container to AMVAC Chemical Corporation. See box label for more complete instructions. Dispose of spilled contents in accordance with all applicable local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Return unused product and empty SmartBox® containers containing residues to AMVAC Chemical Corporation. See the label on the box for more complete instructions.		
Contaminated packaging	emptied. Emp	d containers may retain product residue, fo ty SmartBox® containers should be return rovided. See the label on the container for	ed to AMVAC Chemical Corporation per

14. Transport information

DOT

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	UN number	UN3077
	UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Tefluthrin)
	Transport hazard class(es)	
	Class	9
	Subsidiary risk	-
	Label(s)	9
	Packing group	III
	Environmental hazards	
	Marine pollutant	No
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33
	Packaging exceptions	155
	Packaging non bulk	213
	Packaging bulk	240
IAT	A	
	UN number	UN3077
	UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Tefluthrin)
	Transport hazard class(es)	
	Class	9
	Subsidiary risk	-
	Packing group	III
	Environmental hazards	Yes, when transported over large bodies of water.

 ERG Code
 9L

 Special precautions for user
 Read safety instructions, SDS and emergency procedures before handling.

 Other information

Passenger and cargoAllowed with restrictions.aircraft

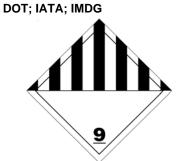
Cargo aircraft only Allowed with restrictions.

Read safety instructions, SDS and emergency procedures before handling.

IMDG

		UN3077
	UN number	
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MARINE POLLUTANT
		(Tefluthrin)
	Transport hazard class(es)	
	Class	9
	Subsidiary risk	-
	Packing group	
	Environmental hazards	
	Marine pollutant	Yes
	EmS	F-A, S-F
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Tefluthrin	
٦	ransport in bulk according to	Not applicable.
ł	Annex II of MARPOL 73/78 and	

the IBC Code



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 400 kg (880 lb) or less). When shipped by vessel or in bulk packaging this product is regulated according to the data shown.

15. Regulatory information

15. Regulatory information	า	
US federal regulations	breathing dust. This product is registered under product in any manner inconsi	eyes, skin, and clothing. Causes moderate eye irritation. Avoid er EPA/FIFRA Regulations. It is a violation of Federal Law to use this stent with its labeling. Read and follow all label directions. This g requirements under EPA/TSCA.
	subject to certain labeling requ from the classification criteria a for workplace labels of non-pe	istered by the United States Environmental Protection Agency and is irrements under federal pesticide law. These requirements differ and hazard information required for safety data sheets (SDS), and sticide chemicals. The hazard information required on the pesticide e pesticide label also includes other important information, including
	HAZARD TO HUMANS AND	DOMESTIC ANIMALS.
		kin or eyes, swallowed or inhaled Wash thoroughly with soap and e eating, drinking, chewing gum using tobacco, or using the toilet. ed clothing before reuse.
	ENVIRONMENTAL HAZARDS	8
	runoff from treated areas may apply directly to water, or to ar mean high water mark. Do not rinsate. This product may pose a haza	xic to freshwater and estuarine fish and invertebrates. Drift and be hazardous to aquatic organisms in neighboring areas. Do not eas where surface water is present or to intertidal areas below the contaminate water when disposing of equipment washwater or rd to endangered aquatic species. Follow all use directions. This nical" as defined by the OSHA Hazard Communication Standard, 29
Toxic Substances Control A		
	oort Notification (40 CFR 707, S	Subpt. D)
Not regulated.		
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed. SARA 304 Emergency release	so notification	
Not regulated.		
5	d Substances (29 CFR 1910.10	001-1053)
free respirable Crystalline (CAS 14808-60-7)	e (quartz) Silica	Cancer
		lung effects immune system effects kidney effects
Superfund Amendments and Re SARA 302 Extremely hazard Not listed.	•	RA)
SARA 311/312 Hazardous	Yes	
chemical	100	
Classified hazard categories	Acute toxicity (any route of exp Respiratory or skin sensitization Carcinogenicity	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List		
	Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated. Safe Drinking Water Act (SDWA)	Contains component(s) regula	ted under the Safe Drinking Water Act.

US state regulations

California Proposition 65

WARNING: This product can expose you to free respirable Crystalline (quartz) Silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Listed: October 1, 1988

California Proposition 65 - CRT: Listed date/Carcinogenic substance

free respirable Crystalline (quartz) Silica

(CAS 14808-60-7)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

free respirable Crystalline (quartz) Silica (CAS 14808-60-7)

International Inventories

Country(s) or region Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	May-13-2015	
Revision date	Aug-20-2020	
References	ACGIH®:American Conference of Governmental Industrial HygienistsCERCLA:Comprehensive Environmental Response, Compensation, and Liability ActEPA:Environmental Protection AgencyFIFRA:Federal Insecticide, Fungicide, and Rodenticide ActIARC:International Agency for Research on CancerNTP:National Toxicology ProgramOSHA:Occupational Safety and Health AgencySARA:Superfund Amendments and Reauthorization ActTSCA:Toxic Substances Control ActDOT:Department of TransportationIMDG:International Maritime Dangerous GoodsIATA:International Air Transport Association	
Version #	5.0	
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0	
NFPA ratings	Health: 2 Flammability: 0 Instability: 0	
Disclaimer		

On inventory (yes/no)*

No

Hazard(s) identification: Hazard statement Hazard(s) identification: Prevention Hazard(s) identification: Response Hazard(s) identification: Supplemental information First-aid measures: Inhalation Transport information: General information Regulatory information: US federal regulations GHS: Classification