

Safety Data Sheet: SWAT PRO, CM

Supersedes Date 07/20/2009

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SWAT PRO, CM
Recommended use Insecticide
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 5501
Chemical nature Solvent mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless

Physical State Liquid

Odor Musty

GHS

Classification

Physical Hazards

Flammable aerosols
Gases under pressure

Category 1
Compressed Gas

Health Hazard

Acute Oral Toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Specific target organ systemic toxicity (single exposure)
Specific target organ systemic toxicity (repeated exposure)

Category 4
Category 2
Category 2
Category 3
Category 2

Other hazards

None

Labeling

Signal Word

WARNING



Hazard Statements

H222 - Extremely flammable aerosol
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.
P251 - Pressurized container: Do not pierce or burn, even after use
P280 - Wear protective gloves, protective clothing and eye protection.
P270 - Do not eat, drink or smoke when using this product
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P260 - Do not breathe the mist or vapor
P271 - Use in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs, get medical attention.
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a physician if unwell.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P403 + P235 - Store in a well-ventilated place. Keep cool
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents and container in accordance with applicable regulations.

64 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Isopropanol	67-63-0	30-60
Petroleum gases, liquified, sweetened	68476-86-8	15-40
N,N-Diethyl-m-toluamide	134-62-3	10-30
Acetone	67-64-1	3-7
n-Octyl bicycloheptenedicarboximide	113-48-4	3-7
Dipropyl isocinchomeronate	136-45-8	1-5

4. FIRST AID MEASURES

General advice	Avoid contact with eyes. Avoid breathing vapors or mists.
Eye Contact	Flush eye with water for 15 minutes. Remove contact lenses. Call a physician or poison control center immediately.
Skin Contact	Wash off with soap and plenty of water. Call a physician if symptoms occur.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	If swallowed, call a poison control center or doctor immediately. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Rinse mouth.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point	> 130 °F / > 54 °C	Method	Tag closed cup
Flammability Limits in Air % Mixture.		Upper 6	Lower 1
Suitable Extinguishing Media	Carbon dioxide (CO ₂). Dry chemical. Foam. Water spray. Alcohol-resistant foam.		
Specific hazards arising from the chemical	Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Flame extension: >30 inches / >76 cm and Burnback: 0 inch / 0 cm.		
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
Aerosol Level (NFPA 30B) -	3		
NFPA	Health 1	Flammability 3	Instability 1
HMIS	Health 1	Flammability 3	Instability 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with eyes. Avoid breathing vapors or mists.			
Storage	Keep away from open flames, hot surfaces and sources of ignition. Store in original container.			
Storage Temperature	Minimum	35 °F / 2 °C	Maximum	120 °F / 49 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Isopropanol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m ³	IDLH: 2000 ppm STEL 500 ppm STEL 1225 mg/m ³ TWA: 400 ppm TWA: 980 mg/m ³

Petroleum gases, liquified, sweetened	No data available	No data available	No data available
N,N-Diethyl-m-toluamide	No data available	No data available	No data available
Acetone	TWA: 500 ppm STEL: 750 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³
n-Octyl bicycloheptenedicarboximide	No data available	No data available	No data available
Dipropyl isocinchomerate	No data available	No data available	No data available

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/Face Protection	If splashes are likely to occur, wear. Safety glasses with side-shields.
Skin Protection	Not required under normal use
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Colorless	Odor	Musty
Odor Threshold	Not applicable	Appearance	Transparent
pH	Not applicable	Specific Gravity	0.87
Evaporation Rate	>3 (Butyl acetate=1)	Percent Volatile (Volume)	70
VOC Content (%)	64.6	VOC Content (g/L)	562
Vapor Pressure	>1 mmHg @ 77°F	Vapor Density	>2 (Air = 1.0)
Solubility	Partly soluble	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	206 °F / 97 °C	Flammability (solid, gas)	No data available
Flash Point	> 130 °F / > 54 °C	Method	Tag closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Mixture.	Upper 6 Lower 1	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition
Incompatible Products	Strong oxidizing agents, Strong acids, Strong bases.
Hazardous Decomposition Products	Carbon oxides
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	Inhalation, Skin Absorption.
Acute Effects	
Eyes	Causes eye irritation.
Skin	May cause skin irritation.
Inhalation	Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Toxicity	Liver and kidney injuries may occur.
Target Organ Effects	Respiratory system, Central nervous system, Eyes, Liver, Kidney.
Aggravated Medical Conditions	Respiratory disorders, Liver disorders, Kidney disorders, Neurological disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Isopropanol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h	no data available	no data available

Petroleum gases, liquified, sweetened	no data available	no data available	no data available	no data available	no data available
N,N-Diethyl-m-toluamide	no data available	no data available	no data available	no data available	no data available
Acetone	no data available	no data available	= 50100 mg/m ³ (Rat) 8 h	no data available	no data available
n-Octyl bicycloheptenedicarboximide	no data available	no data available	no data available	no data available	no data available
Dipropyl isocinchomerionate	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Isopropanol	no data available	no data available	no data available	no data available	eyes, respiratory system, skin, liver, kidney, CNS
Petroleum gases, liquified, sweetened	no data available	no data available	no data available	no data available	no data available
N,N-Diethyl-m-toluamide	no data available	no data available	no data available	no data available	CNS, liver
Acetone	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin
n-Octyl bicycloheptenedicarboximide	no data available	no data available	no data available	no data available	liver, kidneys
Dipropyl isocinchomerionate	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Isopropanol	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum gases, liquified, sweetened	not applicable	not applicable	not applicable	not applicable	not applicable
N,N-Diethyl-m-toluamide	not applicable	not applicable	not applicable	not applicable	not applicable
Acetone	not applicable	not applicable	not applicable	not applicable	not applicable
n-Octyl bicycloheptenedicarboximide	not applicable	not applicable	not applicable	not applicable	not applicable
Dipropyl isocinchomerionate	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Isopropanol	EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h	LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	EC50= 13299 mg/L 48 h	0.05
Petroleum gases, liquified, sweetened	no data available	no data available	no data available	no data available	<=2.8
N,N-Diethyl-m-toluamide	no data available	LC50 106 - 114 mg/L Pimephales promelas 96 h LC50 = 71.25 mg/L Oncorhynchus mykiss 96 h	EC50 = 67.9 mg/L 5 min	no data available	N/A
Acetone	no data available	LC50 4.74 - 6.33 mL/L Oncorhynchus mykiss 96 h LC50 6210 - 8120 mg/L Pimephales promelas 96 h LC50 = 8300 mg/L Lepomis macrochirus 96 h	EC50 = 14500 mg/L 15 min	EC50 10294 - 17704 mg/L 48 h EC50 12600 - 12700 mg/L 48 h	-0.24
n-Octyl bicycloheptenedicarboximide	no data available	no data available	no data available	no data available	N/A
Dipropyl isocinchomerionate	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Aerosols
Hazard Class 2.1
UN-No UN1950
Description UN1950, Aerosols, 2.1

TDG

Hazard Class 2.1
UN-No UN1950

ICAO

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Shipping Description UN1950, Aerosols

IATA

UN-No UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1
ERG Code 10L
Shipping Description UN1950, Aerosols, flammable ,2.1

IMDG/IMO

Proper Shipping Name Aerosols
Hazard Class 2
UN-No UN1950
EmS No. F-D, S-U
Shipping Description UN1950, Aerosols,2

15. REGULATORY INFORMATION

Inventories

TSCA Complies
DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Isopropanol	67-63-0	30-60	1.0
Dipropyl isocinchomerionate	136-45-8	1-5	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Isopropanol	Not applicable	Not applicable
Petroleum gases, liquified, sweetened	Not applicable	Not applicable
N,N-Diethyl-m-toluamide	Not applicable	Not applicable
Acetone	5000 lb	Not applicable
n-Octyl bicycloheptenedicarboximide	Not applicable	Not applicable
Dipropyl isocinchomerionate	Not applicable	Not applicable

16. OTHER INFORMATION

Prepared By Rachael Mohochi
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Reason for Revision No information available.
Glossary No information available.

List of References.

No information available.

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