



Material Safety Data Sheet

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Product Name: First Choice Break-Thru Super Penetrant

MSDS Number: GOL 103

Section 1 - Chemical Product and Company Identification

Product Name: First Choice Break-Thru Super Penetrant

Chemical Name: Polyether-modified polysiloxane-copolymer

Common Name, Synonym: Break-Thru S 233

Material Uses: Surfactant with herbicides, defoliants and plant growth regulators.

Manufactured For: Western Farm Service, Inc., P. O. Box 1168, Fresno, CA 93715-1168

Phone (559) 436-2800 FAX (559) 436-2953 CHEMTREC (800) 424-9300 24 hours every day

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	%
Oxirane, methyl, polymer with oxirane, mono(3-1,3,3,3-tetra methyl-1-((trimethylsilyl)oxy)disiloxanyl)propyl)ether	134180-76-0	>75

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Primary Entry Routes: Eyes, Skin, Inhalation, Ingestion

Target Organs: Eyes, Skin, Respiratory Tract, Digestive System

Potential Health Effects: Harmful by inhalation and in contact with skin. Irritating to eyes and skin.

Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Inhalation: May be slightly toxic based on acute animal studies. Exact effects on humans are not known.

Eye: Irritating to eyes.

Skin: May cause slight irritation.

Ingestion: May be slightly toxic based on acute animal studies. Exact effects on humans are not known.

Acute Effects: May be slightly toxic based on acute animal studies.

Chronic Effects: Not listed by NTP, IARC, ACGIH, or OSHA as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Not known.

Section 4 - First Aid Measures

Eye Contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Skin Contact: Immediately wash off soap and water. Remove soiled or soaked clothing immediately. If irritation persists, seek medical attention. Show this data sheet.

Ingestion: Seek medical advice and show this data sheet.

Inhalation: Remove individual from site of exposure and place in fresh air. If symptoms occur, seek medical attention and show this data sheet.

Notes to Physician: None

Section 5 - Fire-Fighting Measures

Flash Point: 212 °F Method: TAG CC

Autoignition Temperature: not measured

LEL/UEL: not measured

Extinguishing Media: foam, carbon dioxide, dry powder, water spray

Hazardous Decomposition Products: None with proper storage and handling.

Fire-Fighting Instructions: In the event of fire the following can be released: Carbon monoxide, carbon dioxide, silicon dioxide. Collect contaminated firefighting water separately, must not be discharged into the drains.

Fire-Fighting Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Unusual Fire or Explosion Hazards: OSHA flammable class – combustible liquid, Class IIIB

Section 6 - Accidental Release Measures

Spill /Leak Procedures:

Small Spills: Use personal protective equipment. Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Take up with absorbent material (e.g. sand, kieselguhr, universal binder).

Large Spills: Same as for small spills.

Regulatory Requirements: US regulations require reporting spills of this material that could reach any surface waters.

In case of accident or road spill notify:

CHEMTREC USA	Telephone: (800) 424-9300
CANUTEC Canada	(613) 996-6666
CHEMTREC (other countries)	(International code) +1-202-483-7616

Section 7 - Handling and Storage

Handling Precautions: Formation of aerosols or vapors during processing and application should be prevented. Wear respiratory protection when spraying.

Storage Requirements: Keep container tightly closed. Protect from freezing. No special measures required to protect against fire and explosion.

Regulatory Requirements: No special measures required.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Good general (mechanical) ventilation should be sufficient to control airborne levels.

Ventilation: Maintain good ventilation to avoid inhalation of aerosols.

Administrative Controls:

Respiratory Protection: Wear dust/mist respirator (MSHA/NIOSH TC-21C) or NIOSH approved respirator with N, R, P or HE filter.

Protective Clothing/Equipment: Light protective clothing is required. PVC gloves. Safety goggles and/or face shield is recommended for use.

Safety Stations:

Contaminated Equipment: Remove soiled or soaked clothing immediately.

Comments: Avoid contact with eyes and skin. Do not eat, drink or smoke when working. Wash hands before breaks and after work. Use barrier skin cream.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: colorless/clear; slight odor

Odor Threshold: typical

Vapor Pressure: not measured

Vapor Density (Air=1): Approx. 1.02 – 1.03 g/cm³ at 77.0 °F; method: DIN 51757

Percent Volatile (by volume): 15.15 g/l, 0.13 Lb/Gal, percent non-volatile: 98.5%

Evaporation Rate: not measured

Formula Weight: 8.66 Lb/Gal

Density: not measured

Specific Gravity (H₂O=1, at 4 °C): not measured

pH (1% solution): 5.5 – 7.5 at 40 g/l water at 20 °C

Solubility in water: soluble

***Viscosity, dynamic:** 60-140 mPa.s at 25 °C

Section 10 - Stability and Reactivity

Stability: Yes; Good

Hazardous Polymerization: No

Chemical Incompatibilities: None with proper storing and handling.

Conditions to Avoid: None with proper storing and handling.

Hazardous Decomposition Products: None with proper storage and handling.

Section 11- Toxicological Information**Toxicity Data:***

Eye Effects: Species: rabbit, moderate irritant,
Method: OECD 405

Acute Dermal Effects: LD50 Species: rat,
Dose: >2,000 mg/kg, Method: OECD 402

Acute Oral Effects: LD50 Species: rat, Dose:
>2,000 mg/kg, Method: OECD 425

Acute Inhalation Effects: LC50 aero. Species:
rat, Dose: 1.08 mg/l, Exposure time: 4 h,
Method: OECD 403

By analogy with a product of similar
composition.

Skin Irritation: Species: rabbit slight irritant
effect – does not require labeling, method
OECD 404

Chronic Effects: not known

Carcinogenicity: Not listed by NTP, IARC, ACGIH, or OSHA as a
carcinogen.

Mutagenicity: not known

Teratogenicity: not known

* See NIOSH, RTECS on listed ingredients for additional toxicity data.

** Note: The toxicological values refer to the undiluted 100% substance.

Section 12 - Ecological Information

Ecotoxicity: not known

Aquatic Toxicity: LC50 Species: sunfish, Dose: 15 mg/l 96 hr
EC50 Species: Daphnia magna, Dose: 177 mg/l 48 hr

Environmental Fate:

Ecological notes: Use best management practices to limit uncontrolled release to waterways.

Section 13 - Disposal Considerations

Disposal: Dispose of in accordance with local, state, and federal regulations.

Disposal Regulatory Requirements: In accordance with local authority regulations, take to special waste incineration plant.

Container Cleaning and Disposal: If empty contaminated containers are recycled or disposed of, the receiver must be informed about the possible hazards.

Section 14 - Transportation Information**U.S. DEPARTMENT OF TRANSPORTATION****PROPER SHIPPING NAME:** CFR Road: Not regulated, CFR Rail: Not regulated**PACKING GROUP:****HAZARD CLASS:****LABEL/PLACARD REQUIRED:****UN/NA No.:****WATER TRANSPORTATION****PROPER SHIPPING NAME:** IMDG: Not regulated**PACKING GROUP:****HAZARD CLASS:****LABEL/PLACARD REQUIRED:****UN/NA No.:****AIR TRANSPORTATION****PROPER SHIPPING NAME:** ICAO/IATA: Not regulated**PACKING GROUP:****HAZARD CLASS:****LABEL/PLACARD REQUIRED:****UN/NA No.:****OTHER AGENCIES:** CANADA Transport of Dangerous goods

TDG Road: Not regulated, TDG Rail: Not regulated

SECTION 14 NOTES: none**Section 15 - Regulatory Information****EPA Regulations:****Reportable Quantity –CERCLA:** not known**SARA Title III (EPCRA)****SARA Section 311/312:**

Fine: No

Pressure generating: No

Reactivity: No

Acute: Yes

Chronic: No

Sara Section 313:

Notification: No

This product contains no SARA Title III, Section 313 listed chemicals.

Sara EHS:

Notification: No

TSCA:

Notification: Yes

All International ingredients are listed in the TSCA Inventory or comply with TSCA

Polymer Exemption criteria per 40 CFR 723.

RCRA Waste Code: not known**State Regulations:****CA Proposition 65:** Notification: No

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

Canada:

WHMIS CLASSIFICATION

Class D, Division 2B

Notification Status:

Canadian Environmental Protection Act

NDSL

Notification: Yes

All intentional ingredients are listed on the DSL (Domestic Substance List) or the NDSL (Non-Domestic Substance List)

EPA National Response Center (800) 424-8802

Section 16 - Other Information

HMIS Codes: Fire: 1
Health: 2
Physical Hazard: 0
Protection: X

Preparation Date: 2/18/08

Prepared By: Western Farm Service, Inc. /Consultant

Revision Date: none

Revision Notes: none

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET ("MSDS") RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE "PRODUCT"). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS MSDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS OR COMPLETENESS, AND NEITHER (WESTERN FARM SERVICE, INC.) NOR ITS MARKETING AFFILIATES (EACH, A "SELLER") ASSUME ANY LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON SAME.