



Material Safety Data Sheet

SECTION 1. IDENTIFICATION

PRODUCT NAME: TDZ 4SC COTTON DEFOLIANT
EPA REGISTRATION NO.: 87655-6-84237
RECOMMENDED USE: COTTON DEFOLIANT
MANUFACTURER: SOLERA ATO, LLC
340 W. 32ND ST. #383
YUMA, AZ 85364
CUSTOMER SERVICE (928) 503-1518

FOR MEDICAL EMERGENCIES, CONTACT THE NATIONAL POISON INFORMATION CENTER 1-800-222-1222

FOR CHEMICAL EMERGENCY: SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

SIGNAL WORD

CAUTION / PRECAUCIÓN

PICTOGRAMS



PRECAUTIONARY STATEMENTS

HARMFUL IF SWALLOWED. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE TOILET.

DESCRIPTION OF HAZARDS NOT OTHERWISE CLASSIFIED

DO NOT MIX OR ALLOW COMING INTO CONTACT WITH OXIDIZING AGENTS. HAZARDOUS CHEMICAL REACTION MAY OCCUR.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>HAZARDOUS COMPONENT NAME</u>	<u>CAS NO.</u>	<u>AVE % BY WEIGHT</u>
THIDIAZURON (N-PHENYL-N'-1,2,3-THIADIAZOL-5-YLUREA)	51707-55-2	41.0

SECTION 4. FIRST AID MEASURES

IF SWALLOWED: CALL 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 DO SO BY A POISON CONTROL CENTER OR DOCTOR. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED: MOVE PERSON TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AN AMBULANCE, THEN GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH-TO-MOUTH, IF POSSIBLE. CALL A POISON CONTROL CENTER OR DOCTOR FOR FURTHER TREATMENT ADVICE.

IF ON SKIN OR CLOTHING: TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY WITH PLENTY OF WATER FOR 15 TO 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 TO 20 MINUTES. REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST 5 MINUTES, THEN CONTINUE RINSING EYE. CALL A POISON CONTROL CENTER OR DOCTOR FOR TREATMENT ADVICE.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: WATER, FOAM, DRY POWDER, OR CARBON DIOXIDE (CO₂).

HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF NITROGEN, HYDROGEN CHLORIDE, AND PHOSGENE.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL PROTECTIVE CLOTHING. EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE. MINIMIZE THE AMOUNT OF WATER USED FOR FIREFIGHTING. EQUIPMENT SHOULD BE COMPLETELY DECONTAMINATED AFTER USE.

SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: FOR SMALL SPILLS, ABSORB WITH AN ABSORBENT MATERIAL SUCH AS PET LITTER. SWEEP UP AND TRANSFER TO CONTAINERS FOR POSSIBLE LAND APPLICATION ACCORDING TO LABEL USE OR FOR PROPER DISPOSAL. WASH THE SPILL WITH WATER CONTAINING A STRONG DETERGENT, ABSORB WITH PET LITTER OR OTHER ABSORBENT MATERIAL, SWEEP UP AND PLACE IN A CHEMICAL CONTAINER AND HANDLE IN AN APPROVED MANNER. CHECK LOCAL, STATE AND FEDERAL REGULATIONS FOR PROPER DISPOSAL. FLUSH THE AREA WITH WATER TO REMOVE ANY RESIDUE. FOR LARGE SPILLS: CONTAIN LIQUID BY DIKING THE AREA, KEEP PRODUCT OUT OF WATER SUPPLIES. ANY RECOVERED SPILLED LIQUID SHOULD BE SIMILARLY COLLECTED AND DISPOSED OF.

RUNOFF PREVENTION: TO PROTECT THE ENVIRONMENT, DO NOT ALLOW PESTICIDE TO ENTER OR RUN OFF INTO STORM DRAINS, DRAINAGE DITCHES, GUTTERS OR SURFACE WATERS. APPLYING THIS PRODUCT IN CALM WEATHER WHEN RAIN IS NOT PREDICTED FOR THE NEXT 24 HOURS WILL HELP TO ENSURE THAT WIND OR RAIN DOES NOT BLOW OR WASH PESTICIDE OFF THE TREATMENT AREA. RINSING APPLICATION EQUIPMENT OVER THE TREATED AREA WILL HELP AVOID RUN OFF TO WATER BODIES OR DRAINAGE SYSTEMS.

SECTION 7. HANDLING AND STORAGE

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE: STORE PRODUCT AT TEMPERATURE LESS THAN 100°F. RE-MIX PRODUCT PRIOR TO USE IF PRODUCT IS EXPOSED TO FREEZING CONDITIONS.

PESTICIDE DISPOSAL: WASTES RESULTING FROM THE USE OF THIS PRODUCT MUST BE DISPOSED OF ON SITE OR AT AN APPROVED WASTE DISPOSAL FACILITY.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

MIXERS, LOADERS AND APPLICATORS AND OTHER HANDLERS MUST WEAR:

- LONG-SLEEVED SHIRT AND LONG PANTS
- SHOES PLUS SOCKS

SEE ENGINEERING CONTROLS FOR REQUIREMENTS.

FOLLOW MANUFACTURER'S INSTRUCTIONS FOR CLEANING/MAINTAINING PPE. IF NO SUCH INSTRUCTIONS FOR WASHABLES EXIST, USE DETERGENT AND HOT WATER. KEEP AND WASH PPE SEPARATELY FROM OTHER LAUNDRY.

ENGINEERING CONTROLS

PILOTS MUST USE AN ENCLOSED COCKPIT THAT MEETS THE REQUIREMENTS LISTED IN THE WPS FOR AGRICULTURAL PESTICIDES [40 CFR 170.240(F)]. WHEN HANDLERS USE CLOSED SYSTEMS, ENCLOSED CABS, OR AIRCRAFT IN A MANNER THAT MEETS THE REQUIREMENTS LISTED IN THE WORKER PROTECTION STANDARD (WPS) FOR AGRICULTURAL PESTICIDES [40 CFR 170.607(D-F)], THE HANDLER PPE REQUIREMENTS MAY BE REDUCED OR MODIFIED AS SPECIFIED IN THE WPS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	OPAQUE OFF-WHITE
PHYSICAL STATE:	LIQUID
ODOR:	MILD SWEET
FLAMMABILITY:	>230°F
pH:	6.98
DENSITY:	9.76 LB/GAL AT 24°C

SECTION 10. STABILITY AND REACTIVITY

DO NOT MIX OR ALLOW COMING INTO CONTACT WITH OXIDIZING AGENTS. HAZARDOUS CHEMICAL REACTION MAY OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD50 (RAT):	>4000 MG/KG
ACUTE DERMAL LD50 (RABBIT):	>1000 MG/KG
EYE IRRITATION (RABBIT):	SLIGHTLY IRRITATING
SKIN IRRITATION (RABBIT):	NON-IRRITATING
INHALATION LC50 (RAT):	>5.0 MG/L (4 HR).
SKIN SENSITIZATION (GUINEA PIG):	NOT A SENSITIZER
CARCINOGENIC POTENTIAL:	NONE LISTED IN OSHA, NTP, ACGIH, OR IARC.

SECTION 12. ECOLOGICAL INFORMATION

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 washwater or rinsate. **DO NOT** apply when weather conditions favor drift from treated areas.

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

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

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS. DO NOT FLUSH TO SURFACE WATER OR SANITARY SEWER SYSTEM.

DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE. PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS PESTICIDE, SPRAY MIXTURE, OR RINSATE IS A VIOLATION OF FEDERAL LAW. IF THESE WASTES CANNOT BE DISPOSED OF BY USE ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE.

CONTAINER DISPOSAL

NONREFILLABLE CONTAINER EQUAL TO OR LESS THAN 5 GALLONS

NON REFILLABLE CONTAINER: **DO NOT** REUSE OR REFILL THIS CONTAINER. TRIPLE RINSE CONTAINER (OR EQUIVALENT) PROMPTLY AFTER EMPTYING. **TRIPLE RINSE AS FOLLOWS:** EMPTY THE REMAINING CONTENTS INTO APPLICATION EQUIPMENT OR A MIX TANK AND DRAIN FOR 10 SECONDS AFTER THE FLOW BEGINS TO DRIP. FILL THE CONTAINER 1/4 FULL OF WATER AND RECAP. SHAKE FOR 10 SECONDS. POUR RINSATE INTO APPLICATION EQUIPMENT OR A MIX TANK OR STORE RINSATE FOR LATER USE OR DISPOSAL. DRAIN FOR 10 SECONDS AFTER THE FLOW BEGINS TO DRIP. REPEAT THIS PROCEDURE TWO MORE TIMES. THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR BY OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

NONREFILLABLE CONTAINERS GREATER THAN 5 GALLONS

NONREFILLABLE CONTAINER. **DO NOT** REUSE OR REFILL THIS CONTAINER. TRIPLE RINSE OR PRESSURE RINSE CONTAINER (OR EQUIVALENT) PROMPTLY AFTER EMPTYING. **TRIPLE RINSE AS FOLLOWS:** EMPTY THE REMAINING CONTENTS INTO APPLICATION EQUIPMENT OR A MIX TANK. FILL THE CONTAINER 1/4 FULL OF WATER. REPLACE AND TIGHTEN CLOSURES. TIP CONTAINER ON ITS SIDE AND ROLL IT BACK

AND FORTH, ENSURING AT LEAST ONE COMPLETE REVOLUTION, FOR 30 SECONDS. STAND THE CONTAINER ON ITS END AND TIP IT BACK AND FORTH SEVERAL TIMES. TURN THE CONTAINER OVER ONTO ITS OTHER END AND TIP IT BACK AND FORTH SEVERAL TIMES. EMPTY THE RINSATE INTO APPLICATION EQUIPMENT OR A MIX TANK OR STORE RINSATE FOR LATER USE OR DISPOSAL. REPEAT THIS PROCEDURE TWO MORE TIMES. **PRESSURE RINSE AS FOLLOWS:** EMPTY THE REMAINING CONTENTS INTO APPLICATION EQUIPMENT OR A MIX TANK AND CONTINUE TO DRAIN FOR 10 SECONDS AFTER THE FLOW BEGINS TO DRIP. HOLD CONTAINER UPSIDE DOWN OVER APPLICATION EQUIPMENT OR MIX TANK OR COLLECT RINSATE FOR LATER USE OR DISPOSAL. INSERT PRESSURE-RINSING NOZZLE IN THE SIDE OF THE CONTAINER, AND RINSE AT ABOUT 40 PSI FOR AT LEAST 30 SECONDS. DRAIN FOR 10 SECONDS AFTER THE FLOW BEGINS TO DRIP. THEN OFFER FOR RECYCLING IF AVAILABLE, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR BY OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: NOT REGULATED BY USDOT

U.S. SURFACE FREIGHT CLASSIFICATION: INHIBITORS, MODIFIERS OR REGULATORS, PLANT GROWTH (NMFC 101685; CLASS: 65)

CONSULT APPROPRIATE ICAO/IATA AND IMDG REGULATIONS FOR SHIPMENT REQUIREMENTS IN THE AIR AND MARITIME SHIPPING MODES

SECTION 15. REGULATORY INFORMATION

NFPA Ratings:

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

SARA TITLE III: NOT LISTED

RCRA WASTE CODE: NOT LISTED

CA PROP 65: NOT LISTED

REPORTABLE QUANTITY UNDER U.S. CERCLA: NOT LISTED

SECTION 16. OTHER INFORMATION

THIS INFORMATION IS PROVIDED IN GOOD FAITH BUT WITHOUT EXPRESS OR IMPLIED WARRANTY. THE CUSTOMER ASSUMES ALL RESPONSIBILITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH LABEL INSTRUCTIONS.

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