

MATERIAL SAFETY DATA SHEET



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SECTION 1 NAME & HAZARD SUMMARY

Material name: **SUTAN+® 6.7-E Selective Herbicide**

Hazard summary (as defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200):

Physical hazards: None

Health hazards: Irritant (skin, eye, skin sensitizer)

SECTION 2 INGREDIENTS

	%	OSHA PEL
Active Ingredient:		
S-Ethyl diisobutylthiocarbamate (CAS 2008-41-5)	85.1	Not listed
Other Ingredients:	14.9	
Herbicide Antidote, R-25788 (CAS# 37764-25-3)		Not listed
Kerosene (CAS# 8008-20-6)		Not listed
Surfactant blend		Not listed

Ingredients not precisely identified are proprietary or nonhazardous.

Values are not product specifications.

SECTION 3 PHYSICAL DATA

Solubility in water: Not soluble in water. Readily forms an emulsion.

Specific gravity: 0.9413 at 68°F (20°C)

Appearance and odor: Amber liquid

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash point (and method): 197°F, 110°C (Tag CC)

Autoignition temperature: No data

Flammable limits (STP): No data

Firefighting technique:

Vapors may be irritating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Symptoms may be delayed several hours or longer depending upon exposure. As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Firefighters should wear full face self-contained breathing apparatus and impervious protective clothing. Use standard firefighting techniques to extinguish fires involving this material - use water spray, dry chemicals or carbon dioxide. Keep fire-exposed containers cool with a water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination or fire hazard. Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

SECTION 5 REACTIVITY DATA

Stability:

Stable under normal conditions.

Incompatibility:

Relatively nonreactive. It will not react with water. Noncorrosive to materials commonly used in the construction of process equipment, storage and shipping containers.

Hazardous decomposition products:

Combustion products: Toxic materials.

Hazardous polymerization:

Will not occur.

SECTION 6 HEALTH HAZARD ASSESSMENT

Ingestion:

The acute oral LD50 in rat is 3690 - 4300 mg/kg in females and 4500 mg/kg in males. A single dose of this

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product is classified as 'slightly toxic' by ingestion.

Irritation of the gastrointestinal tract is associated with ingestion of the hydrocarbon solvent. Ingestion of excessive quantities can also induce signs of central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Small amounts of the hydrocarbon solvent, if aspirated into the lungs during ingestion or subsequent vomiting, may induce severe lung congestion resulting in labored breathing, coma, and death.

Eye contact:

This material was mildly irritating in rabbit eye studies. Irritation with redness and tearing may occur after human eye contact.

Skin contact:

This material was moderately irritating in rabbit dermal irritation studies in a 24-hour exposure and mildly irritating in a 4-hour exposure. Prolonged skin contact may produce mild irritation with redness, itching or burning. This material is a moderate skin sensitizer in guinea pig tests; it will probably induce skin sensitization after repeated / prolonged contact with human skin.

Skin absorption:

The acute dermal LD50 in rabbits is greater than 4640 mg/kg. A single dermal application of 5 g/kg produced a mild decrease in physical activity and 16.7% mortality in rabbits.

Inhalation:

Inhalation of mists or vapors may cause headache or nausea.

Other effects of overexposure:

The principal routes of exposure are skin contact and inhalation.

SECTION 7 FIRST AID PROCEDURES

General: If a known exposure occurs or is suspected, immediately start the recommended procedures below. Contact a poison control center, physician, or the nearest hospital. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms, and follow the advice given.

Skin: Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

Eyes: Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used at this time. Continue the flushing for an additional 15 minutes if a physician is not immediately available.

Ingestion: If victim is alert and not convulsing, rinse mouth out and give 200 - 300 ml (1 cup) of water to dilute material. Vomiting should only be induced under the direction of a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water. Immediately transport victim to an emergency facility.

Inhalation: Remove victim to fresh air. Consult medical personnel if a cough or other respiratory symptoms develop. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.

Note to physician: Inducing vomiting to remove this slightly toxic material from the stomach can increase the risk of chemical pneumonitis and pulmonary edema due to aspiration of stomach contents. Probable mucosal damage may contraindicate the use of gastric lavage following ingestion.

SECTION 8 SPILL OR LEAK PROCEDURE

Steps to be taken in case material is released or spilled:

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. Any person entering either a significant spill area or an unknown concentration of a vapor or aerosol should use a positive pressure self-contained breathing apparatus or a positive pressure air-supplied respirator with escape pack. Soak up pool liquid with a suitable absorbent such as clay, sawdust or kitty litter. Sweep up absorbed material being careful not to create dust and place in a chemical waste container for disposal. Generously cover contaminated area with a slurry of common household powdered laundry detergent and water. Using a stiff brush, work the slurry into cracks and crevices. Allow to stand for 2-3 minutes and then flush with water. Repeat if necessary. Large spills should be handled according to the spill plan.

Use the following procedures:

1. Do not allow material to enter streams, sewers or other waterways.
2. Spread a suitable absorbent such as clay on the spill, and shovel into an open drum.

3. Generously cover the contaminated areas with common household detergent (e.g., Tide, registered trademark Proctor & Gamble Company). Using a stiff brush and small amounts of water, work the detergent into the remaining spilled material forming a slurry. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes. Be careful to completely avoid skin or eye contact. Do not splatter on oneself or bystanders.
4. Spread absorbent on the slurry liquid and shovel mixture into the open drum.
5. Repeat #3 and #4 if necessary.
6. Rinse with a small amount of water and use absorbent to collect the wash solution. Shovel into the open drum.
7. Seal drum and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to a spill plan. Otherwise, in case of emergency, day or night, call Chemtrec: 1-800-424-9300.

Disposal method:

Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container disposal:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 9 SPECIAL PROTECTION INFORMATION

TLV or suggested control value:

No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.

Ventilation:

This product is intended for use outdoors where engineering controls are not necessary. If use conditions are different (e.g. product reformulation or repackaging), employee exposure should be minimized using traditional techniques such as enclosed system design and/or local exhaust ventilation.

Respiratory protection:

If needed, use MSHA/NIOSH approved respirator for pesticides.

Protective clothing:

This product is FIFRA regulated. Refer to product labeling for required end-user personal protection equipment.

Skin contact should be prevented through the use of impervious gloves, footwear, long-sleeved clothing, and wide brimmed hat. Remove contaminated clothing and wash before reworking.

Eye protection:

Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or a faceshield, selected in regard to exposure potential.

Other protective equipment:

An adequate supply of clean potable water should be available to allow thorough flushing of skin and eyes in event of contact with this compound.

SECTION 10 SPECIAL PRECAUTIONS OR OTHER COMMENTS

Special precautions or other comments:

Prevent skin and eye contact. Do not store near feed, food, or within the reach of children. Containers should be stored in a cool, dry, well ventilated area away from flammable materials and sources of heat or flame. Exercise due caution to prevent damage to or leakage from the container.

SECTION 11 REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

This product is a pesticide and is exempt from TSCA regulation.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

EPA Registration number: 73637-3-74530

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