Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company: Zeneca Agricultural Products
1800 Concord Pike
Wilmington DE 19850
Phone number: (302) 886-1000
Emergency phone:
Medical: 800-327-8633 (1-800 FASTMED)
Chemtrec: 800-424-9300
Technical: 302-886-3000

Name used on label: FUSILADE II TURF & ORNAMENTAL
Product use: Herbicide
A Registered Trade Mark of a Zeneca Group Company.

Section 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Identity</th>
<th>CAS-no.</th>
<th>Typical %</th>
<th>Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUAZIFOP-P-BUTYL TECHNICAL</td>
<td>79241-46-6</td>
<td>24.5 %</td>
<td></td>
</tr>
<tr>
<td>Other Ingredients: inerts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOLVESSO 150</td>
<td>64742-94-5</td>
<td>20.9 %</td>
<td>Contains naphthalene (CAS 91-20-3)</td>
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<td></td>
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<td>OSHA PEL 10 ppm</td>
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</tbody>
</table>

Ingredients not precisely identified are proprietary or non hazardous.
Values are not product specifications.

Section 3 – HAZARDS IDENTIFICATION

Physical hazards:
None

Health hazards:
Irritant (eye, skin, respiratory passages, skin sensitizer). Toxic (inhalation).
Section 4 − FIRST AID MEASURES

IF IN EYES:
Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

IF ON SKIN:
Wash material off 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.

IF SWALLOWED:
Provided the patient is conscious, give 1 or 2 glasses of water to drink. Immediately contact Zeneca’s Emergency Information Network at 1-800-F-A-S-T-M-E-D (327-8633). 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.

IF INHALED:
Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.

MEDICAL ADVICE:
Induced emesis may be indicated in the alert patient who has ingested a large (intentional) quantity. Lavage may be indicated for the obtunded patient who has ingested such a large dose. Hydrocarbon pneumonitis is a risk if this product is aspirated.

Section 5 − FIRE FIGHTING MEASURES

Flash point:
> 212 °F
Method: TCC
Autoignition temperature:
No data.
Flammable limits (STP):
No data.
EXTINGUISHING MEDIA:
Carbon dioxide, foam, dry chemical, halogenated agents. Water spray may be used to cool containers, but a water stream may spread flames.
PROTECTIVE EQUIPMENT:
Self-contained breathing apparatus with full facepiece and protective clothing.

Unusual fire and explosion hazards:
Possible toxic smoke, vapors, fallout and runoff water can result from fires depending on extent of combustion and presence of other combustible materials. Contaminated buildings, areas, and equipment must be properly decontaminated before reuse.

Section 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
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. A small spill can be handled routinely. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing and eye protection to prevent skin and eye contact.

METHODS FOR CLEANING UP:
Do not allow the material to enter streams, sewers or other waterways.
Spread a suitable absorbent such as clay on the spill, and shovel into an open drum.
Generously cover the contaminated areas with common, household detergent (e.g. TIDE, registered trademark of Proctor & Gamble Co.). 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. Spread absorbent on the slurry liquid and shovel mixture into the open drum.
Rinse with small amount of water and use absorbent to collect the wash solution. Shovel into the open drum.
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 call, day or night, 800-424-9300, Chemtrec.
Section 7 − HANDLING AND STORAGE

REQUIREMENTS FOR STORAGE ROOMS:
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.

ADDITIONAL INFORMATION:
Do not store near feed, food, or within the reach of children.

Section 8 − EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

TLV or suggested control value:
No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice. Zeneca has established an employee exposure standard of 0.5 mg/m³ for the active ingredient.

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), use ventilation adequate to maintain safe levels.

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.

BODY PROTECTION:
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 rewearing. Wash separately from other laundry.

RESPIRATORY PROTECTION:
If needed, use MSHA-NIOSH approved respirator for pesticides.

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.

Special precautions or other comments:
Prevent skin and eye contact with this material. Avoid breathing vapors or aerosols. Workers should shower and change to fresh clothing after each shift. A sensitized individual should not be exposed to the product which caused the sensitization.
Section 9 − PHYSICAL AND CHEMICAL PROPERTIES

Form: homogenous liquid
Physical state: Emulsifiable Concentrate
Color: blue
Boiling point: No data.
Vapor Pressure: No data.
   Method: mmHg
Vapour density: No data.
   (air = 1)
Specific gravity: 0.9807 g/ml
Solubility: No data.
pH-value (quant.): 6.2
   1% w/w dilution in deionized water
Volatile by volume: No data.

Section 10 − STABILITY AND REACTIVITY

HAZARDOUS REACTIONS (CONDITIONS TO AVOID)
Stability:
   Stable under normal conditions.
Incompatibility:
   Oxidizing agents.
Hazardous polymerization:
   Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS
   Combustion products - Carbon dioxide, carbon monoxide.

Section 11 − TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

LD50 Ingestion rat (both genders)
Dose: > 5000 mg/kg
Additional inform.:
   This material is classified as "very low toxicity" by ingestion. In humans, severe gastrointestinal disturbance 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.

LC50 Inhalation
Dose : 0.54 .. 0.77 mg/l
Period : 4 hours
Additional inform. : Because the vapor pressure of the active ingredient is low (0.056 mm Hg at 20 deg C), this is unlikely to cause harmful effects under normal conditions of transporting, handling and use. Vapors and aerosols are toxic and can irritate eyes, nose and respiratory passages.

LD50 Skin absorption
Dose : > 2000 mg/kg
Period : 4 hours
Additional inform. : Systemically toxic concentrations of this product will probably not be absorbed through human skin.

Dermal rabbit
Period : 4 hours
Additional inform. : This material was moderately irritating to rabbit skin following a 4-hour exposure. It was moderately irritating following a 24-hour exposure. Similar results will probably occur following contact with human skin. Skin sensitization and irritation may develop after repeated and/or prolonged contact with human skin.

ACUTE TOXICITY (IRRITATION, SENSITIZATION ETC.)

Eye contact rabbit
Results : SLIGHT IRRITANT
Additional inform. : A similar degree of irritation will probably occur after human eye contact.

GENERAL INFORMATION ABOUT ACUTE OR OTHER TOXICITIES

General information
Limited toxicity data are available on this specific product; this health hazard assessment is based on the results of screening tests.
Other effects of overexposure:
No other adverse clinical effects have been associated with exposure to this material.
Section 12 – ECOLOGICAL INFORMATION

ADDITIONAL INFORMATION ABOUT ECOLOGY
Toxic to fish.

Section 13 – DISPOSAL CONSIDERATIONS

Disposal Method:
Discarded product is not a hazardous waste under RCRA, 40 CFR 261.
Container disposal:
Empty container retains product residue. Observe all hazard precautions. Do not distribute or make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

Section 14 – TRANSPORT INFORMATION

ROAD TRANSPORT DOT
Not regulated by DOT.

Section 15 – REGULATORY INFORMATION

HAZARDOUS INGREDIENTS

Other regulations, restrictions and prohibitions

TSCA (Toxic Substances Control Act) Regulations, 40CFR 710:
This product is a pesticide and is exempt from TSCA regulation.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):
Section 313 Supplier Notification. This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:
<2.2% Naphthalene (CAS 91-20-3).

EPA
EPA Registration no.: 10182-393
Section 16 – OTHER INFORMATION

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