

Safety Data Sheet

FUNGAFLOR TR

Revision date : 2009/12/18
Version: 1.1

Page: 2/8
(30487418/SDS_GEN_US/EN)

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
35554-44-0	14.0 %	imazalil
67-63-0		2-Propanol
68512-91-4	86.0 %	Hydrocarbons, C3 - C4
		Proprietary ingredients

4. First-Aid Measures

General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled:

Remove the affected individual into fresh air and keep the person calm.

If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

5. Fire-Fighting Measures

Flash point:	approx. 7 °C	Flame Projection: > 18" NFPA 30B
Lower explosion limit:	1.8 %(V)	flammability: Level 3 aerosol.
Upper explosion limit:	9.5 %(V)	(air)
		(air)

Suitable extinguishing media:

foam, dry extinguishing media, carbon dioxide, water spray

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, halogenated hydrocarbons, hydrocarbons

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

Safety Data Sheet

FUNGAFLOR TR

Revision date : 2009/12/18
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Page: 4/8
(30487418/SDS_GEN_US/EN)

propane	OSHA	PEL 1,000 ppm 1,800 mg/m ³ ;
	ACGIH	TWA value 1,000 ppm ;
2-Propanol	OSHA	PEL 400 ppm 980 mg/m ³ ;
	ACGIH	TWA value 200 ppm ; STEL value 400 ppm ;

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	aerosol	
Odour:	characteristic, alcohol-like	
pH value:	approx. 7.1	(10 g/l, approx. 24 °C)
Density:	0.8854 g/cm ³	(20 °C)
Viscosity, dynamic:	3.92 mPa.s	(approx. 22 °C)
Solubility in water:		dispersible

10. Stability and Reactivity

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge.

Substances to avoid:

oxidizing agents, caustics, acids, amines, aldehydes, chlorinated products

Hazardous reactions:

The product is chemically stable.

Safety Data Sheet

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Page: 6/8
(30487418/SDS_GEN_US/EN)

Reproductive toxicity

Information on: imazalil
No reproductive toxic effects reported.

Development:

Information on: imazalil
No teratogenic effects reported.
Information on: 2-Propanol
Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

12. Ecological Information

Fish

Acute:
Oncorhynchus mykiss/LC50 (96 h): 1.5 mg/l
The ecological data given are those of the active ingredient.

Aquatic invertebrates

Acute:
Daphnia magna/LC50 (48 h): 3.5 mg/l
The ecological data given are those of the active ingredient.

Aquatic plants

Information on: imazalil
Toxicity to aquatic plants:
green algae (72 h): 0.87 mg/l

Information on: 2-Propanol
Toxicity to aquatic plants:
DIN 38412 Part 9 static
green algae/Toxic limit concentration (8 d): 1,800 mg/l
Nominal concentration. Literature data.

13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:

Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

14. Transport Information

Safety Data Sheet

FUNGAFLOR TR

Revision date : 2009/12/18
Version: 1.1

Page: 8/8
(30487418/SDS_GEN_US/EN)

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