

MSDS Number: 102000025126 MSDS Version 1.0 Revision Date: 10/31/2011 Print Date: 10/31/2011

## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	SPECTICLE FLO
MSDS Number	102000025126
Product code (UVP)	80193424
EPA Registration No.	432-1518
Product Use	Herbicide

Bayer Environmental Science 2 T.W. Alexander Drive Research Triangle PK, NC 27709 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day) For Product Information call: 1-800-331-2867

## **SECTION 2. HAZARDS IDENTIFICATION**

NOTE: Please refer to Section Emergency Overview	on 11 for detailed toxicological information. May cause mild irritation to eyes. May cause mild irritation to the skin. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.
Physical State	liquid
Odor	characteristic
Appearance	tan
Exposure routes	Ingestion, Inhalation, Eye contact, Skin contact
Immediate Effects Eye	May cause mild irritation to eyes. Avoid contact with eyes.
Skin	May cause mild irritation to the skin. Avoid contact with skin and clothing.
Inhalation	Avoid breathing spray mist.
Potential Environmental Effect	Toxic to fish and aquatic invertebrates. This product may cause adverse effects on non-target plants.



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SECTION 3. COMPOSITIO	N/INFORMATION ON INGR	EDIENTS	
		CAS-No.	
Hazardous Component N Indaziflam 1,2-Propanediol			Average % by Weight 7.40 8.36
SECTION 4. FIRST AID ME	EASURES		
General	When possible, have the poison control center or c		bel with you when calling a ment.
Еуе	Hold eye open and rinse Remove contact lenses, i eye. Call a physician or p	f present, after the first	5 minutes, then continue rinsing
Skin			ediately. Wash off immediately a physician or poison control
Ingestion		k. DO NOT induce vor trol center. Never give	
Inhalation		rably mouth-to-mouth i	911 or an ambulance, then give if possible. Call a physician or
Notes to physician Treatment	Appropriate supportive ar condition is recommende		ent as indicated by the patient's antidote.

## SECTION 5. FIRE FIGHTING MEASURES

Flash point	no data available
Autoignition temperature	no data available
Lower Flammability Limit	no data available
Upper Flammability Limit	no data available
Suitable extinguishing media	Water spray, Foam, Carbon dioxide (CO2), Dry chemical



## **Material Safety Data Sheet**

## SPECTICLE FLO

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Fire FightingKeep out of smoke. Fight fire from upwind position. Cool closed containersInstructionsexposed to fire with water spray. Do not allow run-off from fire fighting to enter<br/>drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional advice	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact vegetation.

## **SECTION 7. HANDLING AND STORAGE**

Handling procedures	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.
Storing Procedures	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.
Work/Hygienic Procedures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
	Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.



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		Follow all label instruction	s. Train employees in safe use of the produ	uct.
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- **Eye/Face Protection** Tightly fitting safety goggles
- Hand protectionChemical resistant nitrile rubber gloves

**Body Protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**Respiratory protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

## **Exposure Limits**

Indaziflam	950782-86-2	OES BCS*	TWA	0.14 mg/m3
1,2-Propanediol	57-55-6	WEEL	TWA	10 mg/m3
-		TX ESL	ST ESL	20 ug/m3
		TX ESL	ST ESL	500 ppm
		TX ESL	AN ESL	2 ug/m3
		TX ESL	AN ESL	50 ppm

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	tan
Physical State	liquid
Odor	characteristic
рН	5 - 8
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	1.01 g/cm <sup>3</sup> at 20 °C
Evaporation rate	no data available
<b>Boiling Point</b>	no data available
Melting / Freezing Point	no data available
Water solubility	soluble



Minimum Ignition Energyno data availableDecomposition<br/>temperatureno data availablePartition coefficient: n-<br/>octanol/waterno data available

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## SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	freezing
Incompatibility	no data available
Hazardous Decomposition Products	Thermal decomposition can lead to release of: Hydrogen cyanide (hydrocyanic acid) Hydrogen fluoride Carbon monoxide Nitrogen oxides (NOx)
Hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical Stability	Stable under normal conditions.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	female rat: LD50: > 5,000 mg/kg
Acute dermal toxicity	male/female combined rat: LD50: > 5,000 mg/kg
Acute inhalation toxicity	male/female combined rat: LC50: > 2.09 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.
	male/female combined rat: LC50: > 8.36 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
Skin irritation	rabbit: Slight irritation
Eye irritation	rabbit: Minimally irritating.
Sensitisation	guinea pig: Non-sensitizing.
ACGIH None. NTP	



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None.
IARC
None.
OSHA
None.

## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity to fish	Oncorhynchus mykiss (rainbow trout) LC50: 0.572 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient indaziflam.
Toxicity to aquatic plants	Pseudokirchneriella subcapitata Growth rate IC50: 0.134 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient indaziflam.
Acute Toxicity to Aquatic Invertebrates	Water flea (Daphnia magna) EC50: > 9.88 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient indaziflam.
Environmental precautions	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water. Do not apply when weather conditions favor runoff or drift. Drift or runoff from treated areas may adversely affect non-target plants. Apply this product as specified on the label.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

General Disposal Guidance	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
Container Disposal	Do not re-use empty containers. Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.



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## SECTION 14. TRANSPORT INFORMATION

49CFR	Not dangerous goods / not hazardous material
IMDG	
UN-Number	3082
Class	9
Packaging group	
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION)
ΙΑΤΑ	
UN-Number	3082
Class	9
Packaging group	
Environm, Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

#### **SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-1518

#### **US Federal Regulations**

**TSCA** list 1,2-Propanediol 57-55-6 US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) None. SARA Title III - Section 302 - Notification and Information None. SARA Title III - Section 313 - Toxic Chemical Release Reporting None. **US States Regulatory Reporting** CA Prop65 This product does not contain any substances known to the State of California to cause cancer. This product does not contain any substances known to the State of California to cause reproductive harm. **US State Right-To-Know Ingredients** 1,2-Propanediol MN, RI 57-55-6



Canadian Regulations Canadian Domestic Substance List 1,2-Propanediol

57-55-6

Environmental CERCLA None. Clean Water Section 307 Priority Pollutants None. Safe Drinking Water Act Maximum Contaminant Levels None.

#### SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association): Health - 2 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide) Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: New Material Safety Data Sheet.

Revision Date: 10/31/2011

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