

MSDS Number: 102000014590 MSDS Version 1.3 Revision Date: 08/19/2010

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name MSDS Number EPA Registration No. SPECTICLE 20 WSP HERBICIDE 102000014590 432-1499

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. Caution! Hazards to humans. Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before re-use.
Physical State	powder
Odor	weak characteristic
Appearance	beige
Exposure routes	Ingestion, Inhalation, Skin Absorption
Immediate Effects Eye	Moderate eye irritation. Do not get in eyes.
Skin	Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing.
Ingestion	Harmful if swallowed. Do not take internally.
Medical Conditions Aggravated by Exposure	No specific medical conditions are known which may be aggravated by exposure to this product.
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. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Indaziflam	950782-86-2	20.00
Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	10.00
Alkylaryl sulfonate	91078-64-7	4.00
Titanium dioxide	13463-67-7	0.67

#### **SECTION 4. FIRST AID MEASURES**

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Еуе	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to physician Treatment	Treat symptomatically.

#### **SECTION 5. FIRE FIGHTING MEASURES**

Fire and Explosion Hazards	Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet



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Fire Fighting<br/>InstructionsKeep out of smoke. Fight fire from upwind position. Cool closed containers<br/>exposed 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

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

Dust Explosion Class St1

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Remove all sources of ignition. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
Methods for cleaning up	Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional advice	Use personal protective equipment. Material can create slippery conditions. Do not allow to enter soil, waterways or waste water canal.

Handling procedures	Handle and open container in a manner as to prevent spillage.
	Use only in area provided with appropriate exhaust ventilation. Avoid dust formation.
	Keep away from heat and sources of ignition. Dust may form explosive mixture in air.
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.
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.
Min/Max Storage Temperatures	Recommended minimum transport/storage temperature: -20 °C / -4 °F Recommended maximum transport/storage temperature: 40 °C / 104 °F





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SECTION 8. EXPOSURE C	ONTROLS / PE	RSONAL PROTEC	TION	
General Protection	Follow all label instructions. Train employees in safe use of the product.			
			ns for cleaning/maintainin letergent and warm/tepid	
Eye/Face Protection	Safety glasses	Safety glasses with side-shields		
Hand protection	Chemical-resi	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)		
Body Protection	Wear long-sle	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 Kaolin	950782-86-2 1332-58-7	OES BCS* ACGIH NIOSH US CA OEL TX ESL TX ESL TX ESL TX ESL TX ESL	TWA TWA REL REL TWA PEL ST ESL AN ESL ST ESL AN ESL TWA TWA	0.14 mg/m3 2 mg/m3 5 mg/m3 10 mg/m3 2 mg/m3 20 ug/m3 20 ug/m3 20 ug/m3 20 ug/m3 10 mg/m3 5 mg/m3
Synthetic amorphous silica	112926-00-8	OSHA Z1A TX ESL TX ESL	TWA ST ESL AN ESL	6 mg/m3 40 ug/m3 4 ug/m3
Titanium dioxide	13463-67-7	ACGIH OSHA Z1 OSHA Z1A TX ESL TX ESL	TWA TWA PEL TWA ST ESL AN ESL TWA	6 mg/m3 10 mg/m3 15 mg/m3 10 mg/m3 50 ug/m3 5 ug/m3 10 mg/m3

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



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# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	beige
Physical State	powder
Odor	weak characteristic
рН	8 - 11 (1 %) at 23 °C
Bulk density	195 - 229 kg/m3
Minimum Ignition Energy	> 0.3 - < 1 J
Decomposition temperature	> 250 °C , Heating rate: 5 K/min
Other information	The product is capable of dust explosions.

### **SECTION 10. STABILITY AND REACTIVITY**

Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Chemical Stability	Stable under recommended storage conditions.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	male/female combined rat: LD50: > 900 mg/kg
	female rat: LD50: > 2,000 mg/kg
Acute dermal toxicity	male/female combined rat: LD50: > 2,000 mg/kg
Acute inhalation toxicity	rat: LC50: > 5.165 mg/l Exposure time: 4 h Determined in the form of a respirable fine dust. highest concentration tested
	rat: LC50: > 20.66 mg/l Exposure time: 1 h Determined in the form of a respirable fine dust. Extrapolated from the 4 hr LC50.
Skin irritation	rabbit: No skin irritation
Eye irritation	rabbit: No eye irritation



Assessment Carcinogenicity ACGIH		
Titanium dioxide	13463-67-7	Group A4
NTP		
None.		
IARC		
Titanium dioxide	13463-67-7	Overall evaluation: 2B
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.
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.
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.
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.

### SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance	Dispose in accordance with all local, state/provincial and federal regulations.
Container Disposal	Follow advice on product label and/or leaflet. Do not re-use empty containers. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.



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**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.

#### **SECTION 14. TRANSPORT INFORMATION**

CFR	Not dangerous goods / not hazardous material		
IMDG			
UN-Number	3077		
Class	9		
Packaging group			
Marine pollutant	Marine Pollutant		
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (INDAZIFLAM MIXTURE)		
ΙΑΤΑ			
UN-Number	3077		
Class	9		
Packaging group	III		
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (INDAZIFLAM MIXTURE )		

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 IN	FORMATION	
<b>EPA Registration No.</b> 43	2-1499	
US Federal Regulations		
TSCA list		
Lignosulfonic acid, sodium sulfomethylated	salt,	68512-34-5
Titanium dioxide		13463-67-7
US. Toxic Substances Con None.	trol Act (TSCA	) Section 12(b) Export Notification (40 CFR 707, Subpt D)
SARA Title III - Section 302 None.	- Notification	and Information
SARA Title III - Section 313 None.	- Toxic Chemi	ical Release Reporting
US States Regulatory Reportin	g	
CA Prop65		
This product does not con	tain any substar	nces 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 Titanium dioxide None.	13463-67-7	IL, MN, RI		
Canadian Regulations				
Canadian Domestic Substance List				
Lignosulfonic acid, sodium salt,	68512-34-5			
sulfomethylated				
Alkylaryl sulfonate	91078-64-7			
Titanium dioxide	13463-67-7			
Environmental				
CERCLA				
None.				
Clean Water Section 307 Priority Pollutants				
Safe Drinking Water Act Maximum Contaminant Levels None.				
International Regulations				
European Inventory of Existing Commercial Substances (EINECS)				
Titanium dioxide	13463-67-7			

### **SECTION 16. OTHER INFORMATION**

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

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

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

Reason for Revision: Updated for general editorial purposes. The following sections have been revised: Section 2: Hazards Identification. Section 14: Transport Information.

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