

SAFETY DATA SHEET



FLUENCY AGENT ADVANCED

Version 1.0 / USA
102000033618

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Revision Date: 01/16/2017
Print Date: 01/16/2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name FLUENCY AGENT ADVANCED

Product code (UVP) 85410369

SDS Number 102000033618

Relevant identified uses of the substance or mixture and uses advised against

Use Seed flow additive

Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer CropScience
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577

Product Information Telephone Number 1-866-99BAYER (1-866-992-2937)

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200
Combustible dust

Labelling in accordance with regulation HCS 29CFR §1910.1200

Signal word: Warning

Hazard statements

May form combustible dust concentrations in air
Conduct Dust Hazard Assessment (DHA).

Hazards Not Otherwise Classified (HNOC)

Dust may form explosive mixture in air.
No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name
Ethene, homopolymer

CAS-No.
9002-88-4

Concentration % by weight
100

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SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
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.
Skin contact	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.
Eye contact	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.
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.

Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Water spray, Dry chemical, Carbon dioxide (CO₂), Foam

Unsuitable High volume water jet

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Special hazards arising from the substance or mixture	Accumulation of fine dust may entail the risk of a dust explosion in the presence of air., Dangerous gases are evolved in the event of a fire., In the event of fire the following may be released:, Carbon monoxide (CO), Carbon dioxide (CO ₂)
Advice for firefighters	
Special protective equipment for firefighters	In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	Use appropriate extinguishing media for material that is supplying fuel. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Flash point	> 300 °C
Auto-ignition temperature	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosivity	Dust may form explosive mixture in air.
Dust explosion class	St2 (Strongly explosible)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions	Avoid dust formation. Remove all sources of ignition. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
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Methods and materials for containment and cleaning up

Methods for cleaning up	Avoid dust formation and electrical charging (sparking) because dust explosion might occur. No sparking tools should be used. Sweep up or vacuum up spillage and collect in suitable container for disposal. 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. If material is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Material can create slippery conditions.
Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

- Advice on safe handling** Avoid dust formation. Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation. Provide for appropriate exhaust ventilation and dust collection at machinery.
- Advice on protection against fire and explosion** Dust may form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources of ignition.
- Hygiene measures** 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.

Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers** Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container and out of the reach of children, preferably in a locked storage area.
- Advice on common storage** Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Ethene, homopolymer (Respirable particles.)	9002-88-4	3 mg/m3 (TWA)	03 2015	ACGIH
Ethene, homopolymer (Inhalable particles.)	9002-88-4	10 mg/m3 (TWA)	03 2015	ACGIH
Ethene, homopolymer (Total dust.)	9002-88-4	15 mg/m3 (PEL)	02 2006	OSHA Z1
Ethene, homopolymer (Respirable fraction.)	9002-88-4	5 mg/m3 (PEL)	02 2006	OSHA Z1
Ethene, homopolymer (Respirable fraction.)	9002-88-4	5 mg/m3 (TWA)	1989	OSHA Z1A
Ethene, homopolymer (Total dust.)	9002-88-4	15 mg/m3 (TWA)	1989	OSHA Z1A

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Ethene, homopolymer (Respirable fraction.)	9002-88-4	5 mg/m3 (TWA)	06 2008	TN OEL
Ethene, homopolymer (Total dust.)	9002-88-4	15 mg/m3 (TWA)	06 2008	TN OEL
Ethene, homopolymer	9002-88-4	50ug/m3 (ST ESL)	03 2014	TX ESL
Ethene, homopolymer	9002-88-4	5ug/m3 (AN ESL)	03 2014	TX ESL
Ethene, homopolymer (Respirable fraction.)	9002-88-4	5 mg/m3 (TWA PEL)	01 2015	US CA OEL
Ethene, homopolymer (Total dust.)	9002-88-4	10 mg/m3 (TWA PEL)	01 2015	US CA OEL
Ethene, homopolymer (Total dust.)	9002-88-4	15 mg/m3 (TWA)	2000	Z3
Ethene, homopolymer (Total dust.)	9002-88-4	50millions of particles per cubic foot of air (TWA)	2000	Z3
Ethene, homopolymer (Respirable fraction.)	9002-88-4	15millions of particles per cubic foot of air (TWA)	2000	Z3
Ethene, homopolymer (Respirable fraction.)	9002-88-4	5 mg/m3 (TWA)	2000	Z3

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

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.

Use respiratory protection if dust is raised.

Hand protection

When handling hot material, use heat resistant gloves.

Impervious gloves

Protective gloves

Eye protection

Safety glasses, in case of increased risk, also a face shield

Skin and body protection

Use suitable protective clothing, gloves and footwear, selected with regard to use conditions and exposure potential.

Heat-insulating protective clothing

Protective suit

General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If

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no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.
Eye wash facility and safety shower should be available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white
Physical State	powder
Odor	waxy
Odour Threshold	No data available
pH	Not applicable
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	0.94 - 0.97 g/cm ³
Evaporation rate	Not applicable
Boiling Point	No data available
Melting / Freezing Point	105 - 128 °C / 221 - 262.4 °F
Water solubility	negligible
Minimum Ignition Energy	No data available
Decomposition temperature	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	Not applicable
Flash point	> 300 °C
Auto-ignition temperature	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosivity	Dust may form explosive mixture in air.
Dust explosion class	St2 (Strongly explosible)

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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Heat, flames and sparks. Static electricity. Elevated temperatures
Incompatible materials	Strong oxidizing agents, Amines
Hazardous decomposition products	Thermal decomposition can lead to release of: Irritant gases/vapours Carbon dioxide (CO ₂) Carbon monoxide

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Skin contact, Inhalation, Ingestion
Immediate Effects	
Eye	May cause eye irritation.
Skin	May cause skin irritation.
Inhalation	May cause respiratory tract irritation.
Information on toxicological effects	
Acute oral toxicity	LD ₅₀ (Rat) > 2,500 mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin irritation	No data available
Eye irritation	No data available
Sensitisation	No data available

ACGIH

None.

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NTP

None.

IARC

Ethene, homopolymer

9002-88-4

Overall evaluation: 3

OSHA

None.

Further information

No further toxicological information is available.

SECTION 12: ECOLOGICAL INFORMATION

Environmental precautions Do not allow to get into surface water, drains and ground water.
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Consult state and local regulations regarding the proper disposal of container.
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

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA list

Ethene, homopolymer

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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

Ethene, homopolymer	9002-88-4	MN
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Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

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NFPA 704 (National Fire Protection Association):

Health - 0 Flammability - 2 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 0 Flammability - 2 Physical Hazard - 0 PPE -

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

Reason for Revision: New Safety Data Sheet.

Revision Date: 01/16/2017

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