SAFETY DATA SHEET

FLUENCY AGENT ADVANCED

Part 1

Version 1.0 / USA
102000033618

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

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>100</td>
</tr>
</tbody>
</table>
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
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 (CO2).

Advice 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.

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.
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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethene, homopolymer (Respirable particles.)</td>
<td>9002-88-4</td>
<td>3 mg/m³ (TWA)</td>
<td>03 2015</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Ethene, homopolymer (Inhalable particles.)</td>
<td>9002-88-4</td>
<td>10 mg/m³ (TWA)</td>
<td>03 2015</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Ethene, homopolymer (Total dust.)</td>
<td>9002-88-4</td>
<td>15 mg/m³ (PEL)</td>
<td>02 2006</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>Ethene, homopolymer (Respirable fraction.)</td>
<td>9002-88-4</td>
<td>5 mg/m³ (PEL)</td>
<td>02 2006</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>Ethene, homopolymer (Respirable fraction.)</td>
<td>9002-88-4</td>
<td>5 mg/m³ (TWA)</td>
<td>1989</td>
<td>OSHA Z1A</td>
</tr>
<tr>
<td>Ethene, homopolymer (Total dust.)</td>
<td>9002-88-4</td>
<td>15 mg/m³ (TWA)</td>
<td>1989</td>
<td>OSHA Z1A</td>
</tr>
<tr>
<td>Compound</td>
<td>CAS Number</td>
<td>Limit</td>
<td>Date</td>
<td>Source</td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------------</td>
<td>------------------------</td>
<td>--------</td>
<td>------------</td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>5 mg/m3 (TWA)</td>
<td>06 2008</td>
<td>TN OEL</td>
</tr>
<tr>
<td>(Respirable fraction.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>15 mg/m3 (TWA)</td>
<td>06 2008</td>
<td>TN OEL</td>
</tr>
<tr>
<td>(Total dust.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>50ug/m3 (ST ESL)</td>
<td>03 2014</td>
<td>TX ESL</td>
</tr>
<tr>
<td>(Total dust.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>5ug/m3 (AN ESL)</td>
<td>03 2014</td>
<td>TX ESL</td>
</tr>
<tr>
<td>(Total dust.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>5 mg/m3 (TWA PEL)</td>
<td>01 2015</td>
<td>US CA OEL</td>
</tr>
<tr>
<td>(Respirable fraction.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>10 mg/m3 (TWA PEL)</td>
<td>01 2015</td>
<td>US CA OEL</td>
</tr>
<tr>
<td>(Total dust.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>15 mg/m3 (TWA)</td>
<td>2000</td>
<td>Z3</td>
</tr>
<tr>
<td>(Total dust.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>50millions of particles per cubic foot of air (TWA)</td>
<td>2000</td>
<td>Z3</td>
</tr>
<tr>
<td>(Total dust.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer</td>
<td>9002-88-4</td>
<td>15millions of particles per cubic foot of air (TWA)</td>
<td>2000</td>
<td>Z3</td>
</tr>
</tbody>
</table>

**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
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>white</td>
</tr>
<tr>
<td>Physical State</td>
<td>powder</td>
</tr>
<tr>
<td>Odor</td>
<td>waxy</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>0.94 - 0.97 g/cm³</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting / Freezing Point</td>
<td>105 - 128 °C / 221 - 262.4 °F</td>
</tr>
<tr>
<td>Water solubility</td>
<td>negligible</td>
</tr>
<tr>
<td>Minimum Ignition Energy</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 300 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosivity</td>
<td>Dust may form explosive mixture in air.</td>
</tr>
<tr>
<td>Dust explosion class</td>
<td>St2 (Strongly explosible)</td>
</tr>
</tbody>
</table>
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 (CO2)
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
LD50 (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.
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 9002-88-4
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

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

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

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

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.