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### SIGNATURE XTRA STRESSGARD

 Version 1 / IRL
 Revision Date: 01.04.2020

 102000029598
 Print Date: 01.04.2020

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

1.1 Product identifier

Trade name SIGNATURE XTRA STRESSGARD

Product code (UVP) 81691088

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

**Use** Fungicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Ltd

Bayer Ltd

The Atrium, Blackthorn Road

Sandyford Dublin 18 Ireland

**Telephone** +353-1-2999313

Responsible Department Email: ukcropsupport@bayer.com

1.4 Emergency telephone no.

**Emergency telephone no.** 00800 1020 3333 (24 hr)

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Eye irritation: Category 2

H319 Causes serious eye irritation.

#### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

Fosetyl-Aluminium



Signal word: Warning



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#### **Hazard statements**

H319 Causes serious eye irritation.

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

### **Precautionary statements**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

#### 2.3 Other hazards

No other hazards known.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

#### **Chemical nature**

Water dispersible granules (WG) Fosetyl aluminium 60%

### **Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification REGULATION (EC) No 1272/2008	Conc. [%]
Fosetyl-Aluminium	39148-24-8 254-320-2	Eye Dam. 1, H318	60.00
Formic acid	64-18-6 200-579-1 01-2119491174-37-XXXX	Flam. Liq. 3, H226 Acute Tox. 3, H331 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318	>= 1.0 - < 2.0
Sodium diisopropylnaphthalene sulphonate	1322-93-6 215-343-3 01-2119969954-16-XXXX	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 STOT SE 3, H335	>= 3.0 - < 10.0
Bentonite	1302-78-9 215-108-5	Not classified	>= 1.0

### **Further information**

Substances for which there are Community workplace exposure limits: Formic acid (64-18-6)

For the full text of the H-Statements mentioned in this Section, see Section 16.



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#### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

General advice Move out of dangerous area. Remove contaminated clothing

immediately and dispose of safely. When symptoms develop and

persist, seek medical advice.

**Inhalation** Move to fresh air. Call a physician or poison control center

immediately.

**Skin contact** Wash off immediately with soap and plenty of water.

**Eye contact** Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention if irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center

immediately. Keep patient warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** The following symptoms may occur:, Skin, eye and mucous membrane

irritation

4.3 Indication of any immediate medical attention and special treatment needed

**Treatment** Gastric lavage is not normally required. However, if a significant

amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is no specific antidote.

Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

**Unsuitable** High volume water jet

5.2 Special hazards arising

from the substance or

mixture

In the event of fire the following may be released:, Carbon monoxide

(CO), Nitrogen oxides (NOx), Oxides of phosphorus

5.3 Advice for firefighters

Special protective

equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.



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#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1 Personal precautions, protective equipment and emergency procedures

**Precautions** Keep people away from and upwind of spill/leak. Use personal

protective equipment. Avoid dust formation. Avoid contact with spilled

product or contaminated surfaces.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Use approved industrial vacuum cleaner for removal. Collect and

transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly,

observing environmental regulations.

**Additional advice** Check also for any local site procedures.

6.4 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**

### 7.1 Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

No special precautions required.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Remove contaminated clothing immediately and dispose of safely. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or

applying cosmetics.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-

ventilated place. Keep away from direct sunlight.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

**7.3 Specific end use(s)** Refer to the label and/or leaflet.

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

### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Fosetyl-Aluminium	39148-24-8	5 mg/m3		OES BCS*
-		(TWA)		



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Formic acid	64-18-6	9 mg/m3/5 ppm (TWA)	2011	ELV (IE)
Formic acid	64-18-6	9 mg/m3/5 ppm (TWA)	12 2009	EU ELV
Formic acid	64-18-6	5 ppm (TLV)		OES BCS*

<sup>\*</sup>OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### 8.2 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** Wear respirator with a particle filter mask (protection factor 4)

conforming to European norm EN149FFP1 or equivalent.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0.4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 5 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

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

#### 9.1 Information on basic physical and chemical properties

**Form** water-dispersible granules

**Colour** green

Odour slight, acid-like



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Odour Threshold No data available

**pH** 3.0 - 5.0 (10 %) (23 °C) (deionized water)

3.0 - 5.0 (1 %) (23 °C) (deionized water)

Melting point/range No data available

**Boiling Point** 

Not applicable

Flash point Not applicable

**Flammability** The product is not highly flammable.

Auto-ignition temperature No data available

**Ignition temperature** The product is not self-ignitable.

Self-accelarating

decomposition temperature

(SADT)

**Density** 

No data available

No data available

Upper explosion limitNot applicableLower explosion limitNot applicableDust explosion classNo data availableVapour pressureNo data availableEvaporation rateNot applicableRelative vapour densityNo data availableRelative densityNo data available

**Bulk density** 0.512 - 0.705 g/ml (loose)

Water solubility dispersible

Partition coefficient: n-

octanol/water

Fosetyl Aluminium: log Pow: -2.1

Viscosity, dynamic Not applicable
Viscosity, kinematic No data available
Oxidizing properties No oxidizing properties

**Explosivity** Not explosive

Regulation (EC) No. 440/2008, Annex, A.14

**Dust content** Please, note QC information!

**9.2 Other information** Further safety related physical-chemical data are not known.



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### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid** Exposure to moisture.

10.5 Incompatible materials Strong oxidizing agents, Strong acids, Strong bases

10.6 Hazardous decomposition products

No decomposition products expected under normal conditions of use.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg

Acute inhalation toxicity LC50 (Rat) > 5.22 mg/l

Exposure time: 4 h

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg

Skin corrosion/irritation No skin irritation (Rabbit)

Serious eye damage/eye

irritation

Moderate eye irritation. (Rabbit)

Respiratory or skin

sensitisation

Non-sensitizing. (Guinea pig)

### Assessment STOT Specific target organ toxicity - single exposure

Fosetyl Aluminium: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity - repeated exposure

Fosetyl Aluminium did not cause specific target organ toxicity in experimental animal studies.

### **Assessment mutagenicity**

Fosetyl Aluminium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### **Assessment carcinogenicity**

Fosetyl Aluminium was not carcinogenic in lifetime feeding studies in rats and mice.

#### Assessment toxicity to reproduction

Fosetyl Aluminium did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

Fosetyl Aluminium did not cause developmental toxicity in rats and rabbits.

### **Aspiration hazard**



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Based on available data, the classification criteria are not met.

**SECTION 12: ECOLOGICAL INFORMATION** 

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) > 500 mg/l

Exposure time: 96 h

Toxicity to aquatic

EC50 (Daphnia magna (Water flea)) > 1,000 mg/l

invertebrates

Exposure time: 48 h

ErC50 (Desmodesmus subspicatus (green algae)) 43.5 mg/l Toxicity to aquatic plants

Growth rate; Exposure time: 72 h

12.2 Persistence and degradability

**Biodegradability** Fosetyl Aluminium:

rapidly biodegradable

Koc Fosetyl Aluminium: Koc: 0.1

12.3 Bioaccumulative potential

Bioaccumulation Fosetyl Aluminium:

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Fosetyl Aluminium: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Fosetyl Aluminium: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

**Product** In accordance with current regulations and, if necessary, after

> consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging Not completely emptied packagings should be disposed of as

hazardous waste.

Waste key for the unused

02 01 08\* agrochemical waste containing hazardous substances

product

### **SECTION 14: TRANSPORT INFORMATION**

According to ADN/ADR/RID/IMDG/IATA not classified as dangerous goods.



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This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**14.1 – 14.5** Not applicable.

#### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

#### **SECTION 15: REGULATORY INFORMATION**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### **Republic of Ireland Regulations**

This material may be subject to some or all of the following regulations (and any subsequent ammendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

#### Supply and Use

European Communities (Prohibition of Certain Active Substances in Plant Protection Products) Regulations 1981 (SI No 320/1981)

European Communities (Authorization, Placing on the Market, Use and Control of Plant Protection Products) Regulations 2003 (SI No 83/2003)

European Communities (Classification, Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations 2001 (SI No 624/2001

2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations, 2001 (SI No 619/2001)

#### **Waste Treatment**

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

#### **Further information**

WHO-classification: U (Unlikely to present acute hazard in normal use)

### 15.2 Chemical safety assessment

A chemical safety assessment is not required.

### **SECTION 16: OTHER INFORMATION**

### Text of the hazard statements mentioned in Section 3

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.



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H335 May cause respiratory irritation.

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

**Inland Waterways** 

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

ELV Exposure Limit Value
EN European Standard
EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code)

ICx Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SI Statutory Instrument TWA Time weighted average

UN United Nations

WHO World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.