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

1.1 Product identifier

Trade name FLINT
Product code (UVP) 05584493

**UFI** VF60-40HT-M004-FGS7 (for Northern Ireland only)

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 Limited

230 Cambridge Science Park

Milton Road

CB4 0WB Cambridge United Kingdom

**Telephone** +44(0)1223 226500

**Telefax** +44(0)1223 426240

FOR IRELAND & Bayer CropScience Ltd

NORTHERN IRELAND: Bayer Ltd

1st Floor, The Grange Offices The Grange, Brewery Road

Stillorgan Co. Dublin A94 H2K7 Ireland

**Telephone** +353 1 216 3300

**Responsible Department** Email: gb-bcs-crop-regulatory-affairs@bayer.com

1.4 Emergency telephone no.

**Emergency telephone no.** 0330 678 3382 (24 hr)

For Medical Professionals:

You can also contact the relevant NPIS.

For Members to the Public:

You can contact NHS111 (for GB) or your local GP (for Northern

Ireland)

National Poisons Information Centre UK: 0344 892 0111 National Poisons Information Centre Dublin: +353 1 809 2166

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#### **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.

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

Effects on or via lactation:

H362 May cause harm to breast-fed children.

Short-term (acute) aquatic hazard: Category 1 H400 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard: Category 1

H410 Very toxic to aquatic life with long lasting effects.

#### Classification according to specific UK regulations:

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

Short-term (acute) aquatic hazard: Category 1 H400 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard: Category 1

H410 Very toxic to aquatic life with long lasting effects.

Effects on or via lactation:

H362 May cause harm to breast-fed children.

#### 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:

Trifloxystrobin

Signal word: Warning

#### **Hazard statements**

H317 May cause an allergic skin reaction. H362 May cause harm to breast-fed children.

H410 Very toxic to aquatic life with long lasting effects.

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.

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P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or

collection site except for empty clean containers which can be disposed of as non-

hazardous waste.

#### 2.3 Other hazards

No additional hazards known beside those mentioned.

Trifloxystrobin: 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).

Ecological information: The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

#### **Chemical nature**

Water dispersible granules (WG) Trifloxystrobin 50 %

#### **Hazardous components**

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

Name	CAS-No. /	Classification	Conc. [%]
	EC-No./	REGULATION (EC) No	
	REACH Reg. No.	1272/2008	
Trifloxystrobin	141517-21-7	Skin Sens. 1, H317	50
		Lact. H362	
		Aquatic Acute 1, H400	
		Aquatic Chronic 1, H410	
Reaction product of	25417-20-3	Acute Tox. 4, H302	> 1 – < 25
naphthalene, butanol,	01-2119980979-09-XXXX	Acute Tox. 4, H332	
sulfonated and		Eye Dam. 1, H318	
neutralized by caustic		STOT SE 3, H335	
soda			
Diatomaceaous earth	61790-53-2	Not classified	> 1
Silicon dioxide	7631-86-9	Not classified	> 1
Sodium lignosulphonate	8061-51-6	Not classified	> 1
Disodium maleate	371-47-1	Acute Tox. 4, H302	>= 0.1 - <= 1
		Skin Sens. 1B, H317	
		STOT SE 3, H335	

#### **Further information**

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

#### Particle characteristics

This substance/ mixture does not contain nanoforms

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

#### 4.1 Description of first aid measures

Inhalation Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

Skin contact Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water. Call a physician

or poison control center immediately.

Rinse immediately with plenty of water, also under the eyelids, for at Eye contact

> least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation

develops and persists.

Ingestion DO NOT induce vomiting unless directed to do so by a physician or

poison control center. Rinse out mouth and give water in small sips to

drink. Keep patient warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

**Treatment** In case of ingestion gastric lavage should be considered in cases of

> significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always

advisable. There is no specific antidote.

#### **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

Dangerous gases are evolved in the event of a fire.

5.3 Advice for firefighters

**Special protective** 

In the event of fire and/or explosion do not breathe fumes. Wear selfequipment for firefighters contained breathing apparatus and protective suit.

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Further information Remove product from areas of fire, or otherwise cool containers with

water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth.

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

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

**Precautions** Avoid dust formation. Avoid contact with spilled product or

contaminated surfaces. When dealing with a spillage do not eat, drink

or smoke.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform

the Environment Agency (emergency telephone number 0800

807060).

6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up**Sweep up or vacuum up spillage and collect in suitable container for

disposal. Clean floors and contaminated objects with plenty of water.

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 No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice. Ensure

adequate ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

**Hygiene measures** When using, do not eat, drink or smoke. Wash hands immediately after

work, if necessary take a shower.

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

Requirements for storage

areas and containers

Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight. Keep containers

tightly closed in a dry, cool and well-ventilated place.

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

Suitable materials Aluminium composite film (min. 0,007 mm Aluminium)

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

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

#### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Trifloxystrobin	141517-21-7	2.7 mg/m3 (SK-SEN)		OES BCS*
Diatomaceaous earth	61790-53-2	1.2 mg/m3 (TWA)	2007	EH40 WEL
(Respirable dust.)				
Silicon dioxide	7631-86-9	4 mg/m3 (TWA)	01 2020	EH40 WEL
(Respirable dust.)				
Silicon dioxide	7631-86-9	10 mg/m3 (TWA)	01 2020	EH40 WEL
(Inhalable dust.)				
Silicon dioxide	7631-86-9	6 mg/m3 (TWA)	01 2020	EH40 WEL
(Inhalable dust.)				
Silicon dioxide	7631-86-9	2.4 mg/m3 (TWA)	01 2020	EH40 WEL
(Respirable dust.)				
Sodium sulphate	7757-82-6	10 mg/m3 (TWA)		OES BCS*

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

#### 8.2 Exposure controls

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

#### Personal protective equipment

Formulated product

**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

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> 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 4 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 light brown

weak, characteristic Odour **Odour Threshold** No data available Melting point/ range No data available **Boiling Point** No data available **Flammability** does not ignite **Upper explosion limit** No data available Lower explosion limit No data available Flash point Not applicable **Auto-ignition temperature** No data available

Self-accelarating

No data available

decomposition temperature

(SADT)

8.5 - 10.5 (1 %) (23 °C) (deionized water) pН

Viscosity, dynamic No data available Viscosity, kinematic No data available

Water solubility dispersible

Partition coefficient: n-

octanol/water

Trifloxystrobin: log Pow: 4.5 (25 °C)

No data available Vapour pressure **Density** No data available

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Relative density

No data available

Relative vapour density

No data available

Assessment nano particles This substance/ mixture does not contain nanoforms

9.2 Other information

**Impact sensitivity** Not impact sensitive.

**Explosivity** Not explosive

Oxidizing properties No oxidizing properties

**Evaporation rate** No data available

Other physico-chemical

properties

Further safety related physical-chemical data are not known.

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

**10.1 Reactivity** Stable under normal conditions.

**Self heating** not self-heating

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

10.3 Possibility of No hazardous reactions when stored and handled according to

**hazardous reactions** prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

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

#### 11.1 Information on hazard classes as defined in regulation (EC) No 1272/2008

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity

During intended and foreseen applications, no respirable aerosol is

formed.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg

Test conducted with a similar formulation.

Skin corrosion/irritation Slight irritant effect - does not require labelling. (Rabbit)

Test conducted with a similar formulation.

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Serious eye damage/eye Slight irritant effect - does not require labelling. (Rabbit)

**irritation** Test conducted with a similar formulation.

**Respiratory or skin** Skin: Sensitising (Mouse)

sensitisation OECD Test Guideline 429, local lymph node assay (LLNA)

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

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

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

Trifloxystrobin did not cause specific target organ toxicity in experimental animal studies. Diatomaceous earth did not cause specific target organ toxicity in experimental animal studies.

#### **Assessment mutagenicity**

Trifloxystrobin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Diatomaceous earth was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity

Trifloxystrobin was not carcinogenic in lifetime feeding studies in rats and mice. Diatomaceous earth was not carcinogenic in lifetime feeding studies in rats and mice.

#### Assessment toxicity to reproduction

Trifloxystrobin caused reduced body weight development in offspring during lactation only at doses also producing systemic toxicity in adult rats.

Diatomaceous earth did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

Trifloxystrobin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Trifloxystrobin are related to maternal toxicity.

Diatomaceous earth did not cause developmental toxicity in rats and rabbits.

#### **Aspiration hazard**

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

#### **Further information**

No further toxicological information is available.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

Assessment The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 0.036 mg/l

Exposure time: 96 h

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Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 0.01 mg/l

Exposure time: 48 h

LC50 (Mysidopsis bahia (mysid shrimp)) 0.00862 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient trifloxystrobin.

Toxicity to aquatic plants EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.15 mg/l

Growth rate; Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)) 0.0025 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient trifloxystrobin.

12.2 Persistence and degradability

**Biodegradability** Trifloxystrobin:

Not rapidly biodegradable

**Koc** Trifloxystrobin: Koc: 2377

12.3 Bioaccumulative potential

**Bioaccumulation** Trifloxystrobin: Bioconcentration factor (BCF) 431

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Trifloxystrobin: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Trifloxystrobin: 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 Endocrine disrupting properties

Assessment The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 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. Advice may be obtained from the local waste regulation authority (part

of the Environment Agency in the UK).

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**Contaminated packaging** Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using

an integrated pressure rinsing device, or, by manually rinsing three

times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Large containers (> 25 I or > 25 kg) should not be rinsed or re-used for

any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

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

#### ADR/RID/ADN

14.1 UN number **3077** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(TRIFLOXYSTROBIN)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environm. Hazardous Mark
Hazard no.
7 Unnel Code
9 Ull
- 9 Ull

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

#### **IMDG**

14.1 UN number **3077** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(TRIFLOXYSTROBIN)

14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Marine pollutant YES

#### **IATA**

14.1 UN number **3077** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(TRIFLOXYSTROBIN)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environm. Hazardous Mark
YES

#### **UK 'Carriage' Regulations**

14.1 UN number **3077** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(TRIFLOXYSTROBIN)

14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environm. Hazardous Mark YES

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Emergency action code

2Z

#### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

#### 14.7 Transport in bulk according to IMO instruments

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

### **UK and Northern Ireland Regulatory References**

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

#### **Transport**

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367) Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

#### Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

#### **Waste Treatment**

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)

**Landfill Directive** 

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

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

#### **Further information**

WHO-classification: III (Slightly hazardous)

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

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

H302 Harmful if swallowed.

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H317 May cause an allergic skin reaction.
H318 Causes serious eve damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H362 May cause harm to breast-fed children.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### 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 %

EH40 WEL Worker Exposure Limit

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

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) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

ICx

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 above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of

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information or advice contained in this safety data sheet.

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