



## TITUS®

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : TITUS®  
Synonyms : B10022922  
DPX-E9636 25WG

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

Use of the Substance/Mixture : Herbicide

#### 1.3. Details of the supplier of the safety data sheet

Company : Du Pont (UK) Limited  
Crop Protection Products Kings court, London Road  
Stevenage, Herts.  
SG1 2NG  
England

Telephone : +44 (0) 800 689 8899

E-mail address : uk hotline@corveva.com

#### 1.4. Emergency telephone number

+44 (0) 161 884 1235 (CHEMTREC)

|| Poison Centres may only possess information required for products in accordance with Regulation (EC) No 1272/2008 and national legislation.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

|| Acute aquatic toxicity,  
Category 1 H400: Very toxic to aquatic life.

|| Chronic aquatic toxicity,  
Category 1 H410: Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements



|| Warning

|| H410 Very toxic to aquatic life with long lasting effects.



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

Special labelling of certain substances and mixtures EUH401: To avoid risks to human health and the environment, comply with the instructions for use.,

P391 Collect spillage.  
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.

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

**2.3. Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
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**Rimsulfuron (CAS-No.122931-48-0)**

	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	25 %
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**Alkylnaphthalenesulfonic acid, sodium salt/formaldehyde polycondensate (CAS-No.68425-94-5)**

	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 10 - <= 15 %
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The above products are compliant to REACH registration obligations; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

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

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

General advice : Never give anything by mouth to an unconscious person.  
: For specialist advice physicians should contact the National Poisons



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

Information Service: Tel. 111 for England and Wales and Tel. 08454 24 24 24 for Scotland.

- Inhalation : Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact : If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
- Ingestion : Obtain medical attention. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water.

**4.2. Most important symptoms and effects, both acute and delayed**

- Symptoms : No cases of human intoxication are known and the symptoms of experimental intoxication are not known.

**4.3. Indication of any immediate medical attention and special treatment needed**

- Treatment : Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

- Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO<sub>2</sub>)

- Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk)

**5.2. Special hazards arising from the substance or mixture**

- Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

**5.3. Advice for firefighters**

- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

: (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Control access to area. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

**6.2. Environmental precautions**

Environmental precautions : Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3. Methods and materials for containment and cleaning up**

Methods for cleaning up : Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Clean-up methods - large spillage Avoid dust formation. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).  
If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.

Other information : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

**6.4. Reference to other sections**

For personal protection see section 8., For disposal instructions see section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Advice on safe handling : Use only according to our recommendations. Use only clean equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wear personal protective equipment. For personal protection see section 8. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. Remove and wash contaminated clothing before re-use. Avoid exceeding the given occupational exposure limits (see section 8).



## TITUS®

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.

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

Requirements for storage areas and containers : Store in a place accessible by authorized persons only. Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

### 7.3. Specific end use(s)

Plant protection products subject to Regulation (EC) No 1107/2009.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

If sub-section is empty then no values are applicable.

### 8.2. Exposure controls

- Engineering measures : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.
- Eye protection : Safety glasses with side-shields conforming to EN166
- Hand protection : Material: Nitrile rubber  
Glove thickness: 0.3 mm  
Glove length: Standard glove type.  
Protection index: Class 6  
Wearing time: > 480 min  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. 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. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Before removing gloves clean them with soap and water.
- Skin and body protection : Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-2)  
Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).  
Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required.



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

Tractor / sprayer without hood: Low application: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Backpack / knapsack sprayer: Low application: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Mechanical automatized spray application in closed tunnel: No personal body protection normally required during the application. However, gloves and a long sleeved shirt shall be worn when handling the treated plants after the application.

To optimize the ergonomoy it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.

Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.

The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.

- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. For environmental protection remove and wash all contaminated protective equipment before re-use. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Dispose of rinse water in accordance with local and national regulations.
- Respiratory protection : Manufacturing and processing work: Half mask with a particle filter FFP1 (EN149)  
Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149)  
Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required.  
Tractor / sprayer without hood: Low application: Half mask with a particle filter FFP1 (EN149)  
Backpack / knapsack sprayer: Low application: Half mask with a particle filter FFP1 (EN149)  
Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

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

Form : solid

Colour : beige



## TITUS®

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

Odour	: very faint
Odour Threshold	: not determined
pH	: 7.0 at 10 g/l ( 25 °C)
Melting point/range	: Not available for this mixture.
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: 380 °C
Oxidizing properties	: The product is not oxidizing.
Explosive properties	: Not explosive
Lower explosion limit/ Lower flammability limit	: 0.15 vol%
Upper explosion limit/ upper flammability limit	: Not available for this mixture.
Vapour pressure	: Not available for this mixture.
Bulk density	: 727 kg/m <sup>3</sup> , packed
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, kinematic	: Not applicable
Relative vapour density	: Not applicable
Evaporation rate	: Not applicable

### 9.2. Other information

Phys.-chem./other information : No other data to be specially mentioned.

## SECTION 10: Stability and reactivity



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

- 10.1. Reactivity** : No hazards to be specially mentioned.
- 10.2. Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.3. Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed.
- 10.4. Conditions to avoid** : Processing temperature : > 100 °C To avoid thermal decomposition, do not overheat. Under severe dusting conditions, this material may form explosive mixtures in air.
- 10.5. Incompatible materials** : No materials to be especially mentioned.
- 10.6. Hazardous decomposition products** : No materials to be especially mentioned.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute oral toxicity

LD50 / Rat : > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Information source: Internal study report (Data on the product itself)

Acute inhalation toxicity

LC50 / 4 h Rat : > 7.5 mg/l  
Method: OECD Test Guideline 403  
Information source: Internal study report (Data on the product itself)

Acute dermal toxicity

LD50 / Rabbit : > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Information source: Internal study report (Data on the product itself)

Skin irritation

Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404  
Information source: Internal study report (Data on the product itself)

Eye irritation

Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405





## TITUS®

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

Information source: Internal study report (Data on the product itself)

### Sensitisation

Guinea pig Maximisation Test

Result: Animal test did not cause sensitization by skin contact.

Method: OECD Test Guideline 406

Information source: Internal study report (Data on the product itself)

### Repeated dose toxicity

- Rimsulfuron

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral multiple species

altered blood chemistry, Liver effects, Organ weight changes

Oral Rat

altered blood chemistry, Liver effects, Organ weight changes, Information source: Internal study report

### Mutagenicity assessment

- Rimsulfuron

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not show mutagenic effects in animal experiments.

### Carcinogenicity assessment

- Rimsulfuron

Did not show carcinogenic effects in animal experiments.

### Toxicity to reproduction assessment

- Rimsulfuron

Animal testing did not show any effects on fertility.

### Assessment teratogenicity

- Rimsulfuron

Evidence suggests the substance is not a developmental toxin in animals.

### STOT - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration hazard



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

The mixture does not have properties associated with aspiration hazard potential.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Toxicity to fish

static test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): > 1,000 mg/l  
Method: OECD Test Guideline 203  
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic plants

ErC50 / 72 h / *Pseudokirchneriella subcapitata* (microalgae): 4.565 mg/l  
Method: OECD Test Guideline 221  
Information source: Internal study report (Data on the product itself)

EC50 / 14 d / *Lemna gibba* (duckweed): 0.0315 mg/l  
Method: US EPA Test Guideline OPP 122-2 & 123-2  
Information source: Internal study report (Data on the product itself)

Toxicity to aquatic invertebrates

static test / EC50 / 48 h / *Daphnia magna* (Water flea): > 1.000 mg/l  
Method: OECD Test Guideline 202  
(Data on the product itself) Information source: Internal study report

Toxicity to soil dwelling organisms

LC50 / 14 d / *Eisenia fetida* (earthworms): > 1,000 mg/kg  
Method: OECD Test Guideline 207  
(Data on the product itself) Information source: Internal study report

Toxicity to other organisms

LD50 / *Colinus virginianus* (Bobwhite quail): > 2.250 mg/kg  
Method: US EPA Test Guideline OPP 71-1  
(Data on the product itself) Information source: Internal study report

LD50 / *Anas platyrhynchos* (Mallard duck): > 2.000 mg/kg  
Method: US EPA Test Guideline OPP 71-1  
(Data on the product itself) Information source: Internal study report

LC50 / 8 d / *Colinus virginianus* (Bobwhite quail): > 5.620 mg/kg  
Method: US EPA Test Guideline OPP 71-2  
(Data on the product itself) Information source: Internal study report

LD50 / 48 h / *Apis mellifera* (bees): 0.0411 mg/kg  
Method: OECD Test Guideline 213  
Oral (Data on the product itself) Information source: Internal study report



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

LD50 / 48 d / Apis mellifera (bees): 0.0178 mg/kg  
Method: OECD Test Guideline 214  
Contact (Data on the product itself) Information source: Internal study report

Chronic toxicity to fish

- Rimsulfuron  
Early Life-Stage / NOEC / 90 d / Oncorhynchus mykiss (rainbow trout): 110 mg/l  
Method: OECD Test Guideline 210  
Information source: Internal study report

Chronic toxicity to aquatic Invertebrates

NOEC / 21 d / Daphnia magna (Water flea): 26 mg/l  
Information source: Internal study report (Data on the product itself)

**12.2. Persistence and degradability**

Biodegradability

Not readily biodegradable. Estimation based on data obtained on active ingredient.

**12.3. Bioaccumulative potential**

Bioaccumulation

Does not bioaccumulate. Estimation based on data obtained on active ingredient.

**12.4. Mobility in soil**

Mobility in soil

Potentially mobile, but the leaching potential is mitigated by rapid degradation.

**12.5. Results of PBT and vPvB assessment**

PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

**12.6. Other adverse effects**

**Additional ecological information**

No other ecological effects to be specially mentioned See product label for additional application instructions relating to environmental precautions.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Dispose of rinse water as waste water. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not re-use empty containers.

**SECTION 14: Transport information**

**ADR**

14.1. UN number: 3077  
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Rimsulfuron)  
14.3. Transport hazard class(es): 9  
14.4. Packing group: III  
14.5. Environmental hazards: For further information see Section 12.  
14.6. Special precautions for user:  
Tunnel restriction code: (-)

**IATA\_C**

14.1. UN number: 3077  
14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Rimsulfuron)  
14.3. Transport hazard class(es): 9  
14.4. Packing group: III  
14.5. Environmental hazards : For further information see Section 12.  
14.6. Special precautions for user:  
DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

**IMDG**

14.1. UN number: 3077  
14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Rimsulfuron)  
14.3. Transport hazard class(es): 9  
14.4. Packing group: III  
14.5. Environmental hazards : Marine pollutant  
14.6. Special precautions for user:  
No special precautions required.  
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
Not applicable

**SECTION 15: Regulatory information**

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

Other regulations : The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008. Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant



## TITUS®

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

workers. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values. This product is in full compliance according to REACH regulation 1907/2006/EC.

### 15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this/these product(s).  
The mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009.  
Refer to the label for exposure assessment information.

## SECTION 16: Other information

### Full text of H-Statements referred to under section 3.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Other information                      professional use

### Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-No.	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level



**TITUS®**

Version 4.0 (replaces: Version 3.1)  
Revision Date 28.08.2017

Ref. 13000000224

OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA):
vPvB	very Persistent and very Bioaccumulative

**Further information**

Before use read DuPont's safety information., Take notice of the directions of use on the label.

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**Note:** The classification of substances listed in Annex VI to the CLP regulation are derived from assessment of the best knowledge and information available at the time of its publication or subsequent amendments. The information on components provided in sections 11 and 12 of this safety data sheet may in some cases not align with a legally binding classification on the basis of technical progress and availability of new information.

Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.