

INKU-DTG-10000-PD

Ref. 130000149631
Version 2.0

Revision Date 21.03.2018
Issue Date 22.03.2018

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 : INKU-DTG-10000-PD

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

Use of the Substance/Mixture : Printing ink

1.3. Details of the supplier of the safety data sheet

Company : ROLAND DG EUROPE HOLDINGS B.V.
PROF. J.H. BAVINCKLAAN 2
1183AT AMSTELVEEN
NETHERLANDS

Telephone : +31 20 723 36 70

Telefax :

E-mail address : deu-demand-planning@rolanddg.com

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Serious eye damage, Category 1

H318: Causes serious eye damage.

2.2. Label elements



Danger

H318 Causes serious eye damage.

Special labelling of certain EUH208 Contains: Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one

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substances and mixtures

[EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);. May produce an allergic reaction.

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 11.9385 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 22.1515 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 22.1515 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 11.9385 %

P280
P305 + P351 + P338 + P310

Wear eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No hazards to be specially mentioned.

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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Calcium nitrate tetrahydrate (CAS-No.13477-34-4)

	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 10 - < 20 %
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Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1); (CAS-No.55965-84-9)

	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0001 - < 0.0015 %
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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. When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Get medical attention.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
- Eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/attention.
- Ingestion : If swallowed, call a poison control centre or doctor immediately. Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

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

- Symptoms :
- Inhalation may provoke the following symptoms:, Irritation, Cough
 - Skin contact may provoke the following symptoms:, Irritation with discomfort or pain, redness or rash, itching or swelling., Allergic reactions
 - Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
 - Eye contact may provoke the following symptoms:, Irritation, Tearing, pain, redness, swelling, ulceration, visual impairment, or blindness.

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

- Treatment : No specific intervention is indicated. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- : Water spray, Dry chemical, Carbon dioxide (CO2)

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5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.

5.3. Advice for firefighters

Special protective equipment for firefighters : Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal risk. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.

6.2. Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Clean contaminated floors and objects thoroughly while observing environmental regulations.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spill. Soak up with inert absorbent material. Collect and contain contaminated absorbent and dike material for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Clean contaminated floors and objects thoroughly while observing environmental regulations.

Other information : 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 : Avoid inhalation, ingestion and contact with skin and eyes. Do not use in areas without adequate ventilation. For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed in a cool, well-ventilated place. Do not store or

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areas and containers : consume food, drink or tobacco in areas where they may become contaminated with this material. Do not reuse empty container.

Other data : Stable under normal conditions.

7.3. Specific end use(s)

Apart from any uses mentioned in Section 1.2, no other specific end uses are stipulated.

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. Maintain air concentrations below occupational exposure standards. General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits.

Eye protection : Wear safety glasses or coverall chemical splash goggles.

Hand protection : Material: Protective gloves complying with EN 374.
Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. 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 selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Lightweight protective clothing and safety shoes are recommended.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Keep container closed. Keep away from food and drink. Wash hands before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas. Wash contaminated clothing before re-use.

Respiratory protection : No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: Aqueous solution
Colour	: translucent
Odour	: slight
Odour Threshold	: no data available
pH	: 6.0 - 6.5
Melting point/freezing point	: no data available
Boiling point/boiling range	: no data available
Flash point	: 130 °C , Method: Cleveland closed cup - CCC
Self-Accelerating decomposition temperature (SADT)	: no data available
Flammability (solid, gas)	: Not applicable. The product is a liquid.
Ignition temperature	: no data available
Thermal decomposition	: no data available
Oxidizing properties	: The product contains no substances with oxidizing properties.
Explosive properties	: The product contains no substances with explosive properties.
Lower explosion limit/ Lower flammability limit	: Not relevant for classification and labelling of solids/liquids.
Upper explosion limit/ upper flammability limit	: Not relevant for classification and labelling of solids/liquids.
Vapour pressure	: Not available for this mixture.
Density	: 1.0950 g/cm ³
Relative density	: no data available
Bulk density	: no data available
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: The substance or mixture is not classified as pyrophoric.
Solubility in other solvents	: no data available

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Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Relative vapour density : Not available for this mixture.
Evaporation rate : Not available for this mixture.

9.2. Other information

No other data to be specially mentioned.

SECTION 10: Stability and reactivity

- 10.1. Reactivity** : No dangerous reaction known under conditions of normal use.
- 10.2. Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.3. Possibility of hazardous reactions** : None reasonably foreseeable. Stable at normal temperatures and storage conditions.
- 10.4. Conditions to avoid** : Avoid extreme heat. Do not freeze.
- 10.5. Incompatible materials** : Acids, bases and strong oxidizing agents
- 10.6. Hazardous decomposition products** : No decomposition if stored and applied as directed.
Under fire conditions:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Acute toxicity estimate : > 2,000 mg/kg
Method: Calculation method

- Calcium nitrate tetrahydrate
LD50 / Rat : 301 mg/kg
Method: OECD Test Guideline 423
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
LD50 / Rat : 53 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity

- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);

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LC50 / 4 h Rat : 0.33 mg/l
Method: OECD Test Guideline 403
Respiratory tract irritation

Acute dermal toxicity

- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
LD50 / Rabbit : 1,008 mg/kg
Method: OECD Test Guideline 402

Skin irritation

- Calcium nitrate tetrahydrate
Rabbit
Classification: No skin irritation
Result: Slight or no skin irritation
Method: OECD Test Guideline 404
Minimal effects that do not meet the threshold for classification. Information given is based on data obtained from similar substances.
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
Rabbit
Classification: Corrosive
Result: Causes burns.
Method: OECD Test Guideline 404

Eye irritation

- Calcium nitrate tetrahydrate
Rabbit
Classification: Risk of serious damage to eyes.
Result: Irreversible effects on the eye
Method: OECD Test Guideline 405
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
Rabbit
Classification: Causes burns.
Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 405

Sensitisation

- Calcium nitrate tetrahydrate
Mouse
Classification: Does not cause skin sensitisation.
Result: Does not cause skin sensitisation.
Method: OECD Test Guideline 429
Information given is based on data obtained from similar substances.
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);

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Guinea pig
Classification: May cause sensitisation by skin contact.
Result: Causes skin sensitization.
Method: OECD Test Guideline 406

Repeated dose toxicity

- Calcium nitrate tetrahydrate
Ingestion Rat
Exposure time: 28 d
NOAEL: > 1,500 mg/kg
Method: OECD Test Guideline 422
No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
Oral Rat
No adverse effect has been observed in chronic toxicity tests.

Dermal Rabbit
No adverse effect has been observed in chronic toxicity tests.

Inhalation Rat
No adverse effect has been observed in chronic toxicity tests.

Mutagenicity assessment

- Calcium nitrate tetrahydrate
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Information given is based on data obtained from similar substances.
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells.
Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Carcinogenicity assessment

- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment

- Calcium nitrate tetrahydrate
No toxicity to reproduction Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances.
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
No toxicity to reproduction Animal testing showed no reproductive toxicity.

Assessment teratogenicity

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- Calcium nitrate tetrahydrate
Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
Animal testing showed no developmental toxicity.

Further information

No data is available on the product itself. Information given is based on data on the components.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

- Calcium nitrate tetrahydrate
LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): > 100 mg/l
Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 0.19 mg/l
Method: OECD Test Guideline 203

LC50 / 96 h / *Lepomis macrochirus* (Bluegill sunfish): 0.28 mg/l
Method: OECD Test Guideline 203

Toxicity to aquatic plants

- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
EC50 / 72 h / *Selenastrum capricornutum* (green algae): 0.018 mg/l
Method: OECD Test Guideline 201

Toxicity to aquatic invertebrates

- Calcium nitrate tetrahydrate
EC50 / 48 h / *Daphnia magna* (Water flea): 490 mg/l
Information given is based on data obtained from similar substances.
- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
EC50 / 48 h / *Daphnia magna* (Water flea): 0.16 mg/l
Method: OECD Test Guideline 202

Chronic toxicity to fish

- Calcium nitrate tetrahydrate
NOEC / 32 d / *Pimephales promelas* (fathead minnow): 157 mg/l

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Information given is based on data obtained from similar substances.

12.2. Persistence and degradability

Biodegradability

- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
/ 2 d
Biodegradation: 97 %
Method: OECD Test Guideline 302
Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation

- Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);
Bioaccumulation is unlikely.

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Additional ecological information

No data is available on the product itself. Information given is based on data on the components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product : Dispose of in accordance with the European Directives on waste and hazardous waste. Never place unused product down any indoor or out door drain.
- Contaminated packaging : Do not reuse empty container. Contaminated/not cleaned containers should be treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

SECTION 14: Transport information

ADR

- 14.1. UN number: Not applicable
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable

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- 14.4. Packing group: Not applicable
14.5. Environmental hazards: none
- 14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.

IATA_C

- 14.1. UN number: Not applicable
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable
14.5. Environmental hazards: none
- 14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.

IMDG

- 14.1. UN number: Not applicable
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable
14.5. Environmental hazards: none
- 14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.
- 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

Major Accident Hazard Legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Other regulations :

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 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

15.2. Chemical safety assessment

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No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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
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

Sources of key data used to compile the Safety Data Sheet



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Key literature references and sources for data may include: regulations, databases, literature, own research, practical experience.

The health and environmental classification of the mixture is derived using the calculation methods and the classifications of the relevant ingredients unless product level data has been provided in Section 11 or 12, indicating that the classification for those end points were derived on the basis of test data or bridging principles.

Further information

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.