

Fax No -

Tel No -

## Certificate of Analysis

Indorama Netherlands B.V.  
 Markweg 201  
 3198 NB Europoort Rotterdam  
 Netherlands

**Date of Issue -** 02.09.2022

**Product -** 2000000262 SURFONIC® AG-1700  
**Batch Number / Lot No -** GSOD212171  
**Quantity -** 52  
**Date of Manufacturing -** 02.09.2021  
**Date of Expiry -** 02.09.2023

**Result Box:**

Characteristic	Unit	Value	Lower Limit	Upper Limit
WATER	WT%	0.0400	0.0000	0.1000
COLOR	Pt-Co	10.0	0.0	40.0
ASSAY	%	99.90	99.00	100.00
APPEARANCE	-	Pass	Pass	-

**Notes:**

1. This document was created by an integrated electronic information system, and consequently may not be signed.
2. Nothing herein is to be constructed as a guarantee or warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information to carry out its own inspection and so determine the suitability of any product for its own particular purpose.
3. The General Conditions of the Sale and Delivery of Indorama Netherlands B.V shall apply.

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## Certificate of Analysis

Indorama Netherlands B.V.  
 Markweg 201  
 3198 NB Europoort Rotterdam  
 Netherlands

**Date of Issue -** 08/05/2022

**Product -** 2000000262 SURFONIC® AG-1700  
**Batch Number / Lot No -** GSOD213011  
**Quantity -** 8  
**Date of Manufacturing -** 11/02/2021  
**Date of Expiry -** 11/02/2023

**Result Box:**

Characteristic	Unit	Value	Lower Limit	Upper Limit
WATER	WT%	0.0300	0.0000	0.1000
COLOR	Pt-Co	10.0	0.0	40.0
ASSAY	%	99.50	99.00	100.00
APPEARANCE	-	Pass	Pass	-

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**Product -** 2000000262 SURFONIC® AG-1700  
**Batch Number / Lot No -** GSOD211601  
**Quantity -** 4  
**Date of Manufacturing -** 08/10/2021  
**Date of Expiry -** 08/10/2023

**Result Box:**

Characteristic	Unit	Value	Lower Limit	Upper Limit
WATER	WT%	0.0180	0.0000	0.1000
COLOR	Pt-Co	21.0	0.0	40.0
ASSAY	%	100.00	99.00	100.00
APPEARANCE	-	Pass	Pass	-

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**Product -** 2000000262 SURFONIC® AG-1700  
**Batch Number / Lot No -** GSOD220331  
**Quantity -** 16  
**Date of Manufacturing -** 02/28/2022  
**Date of Expiry -** 02/28/2024

**Result Box:**

Characteristic	Unit	Value	Lower Limit	Upper Limit
WATER	WT%	0.0180	0.0000	0.1000
COLOR	Pt-Co	20.0	0.0	40.0
ASSAY	%	100.00	99.00	100.00
APPEARANCE	-	Pass	Pass	-

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**Product -** 2000000262 SURFONIC® AG-1700  
**Batch Number / Lot No -** GSOD220801  
**Quantity -** 36  
**Date of Manufacturing -** 04/26/2022  
**Date of Expiry -** 04/25/2024

**Result Box:**

Characteristic	Unit	Value	Lower Limit	Upper Limit
WATER	WT%	0.0200	0.0000	0.1000
COLOR	Pt-Co	5.0	0.0	40.0
ASSAY	%	99.60	99.00	100.00
APPEARANCE	-	Pass	Pass	-

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**Product -** 2000000262 SURFONIC® AG-1700  
**Batch Number / Lot No -** GSOD220521  
**Quantity -** 4  
**Date of Manufacturing -** 02/10/2022  
**Date of Expiry -** 02/10/2024

**Result Box:**

Characteristic	Unit	Value	Lower Limit	Upper Limit
WATER	WT%	0.0200	0.0000	0.1000
COLOR	Pt-Co	5.0	0.0	40.0
ASSAY	%	100.00	99.00	100.00
APPEARANCE	-	Pass	Pass	-

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**Product -** 2000000262 SURFONIC® AG-1700  
**Batch Number / Lot No -** GSOD213411  
**Quantity -** 12  
**Date of Manufacturing -** 01/20/2022  
**Date of Expiry -** 01/20/2024

**Result Box:**

Characteristic	Unit	Value	Lower Limit	Upper Limit
WATER	WT%	0.0500	0.0000	0.1000
COLOR	Pt-Co	10.0	0.0	40.0
ASSAY	%	99.00	99.00	100.00
APPEARANCE	-	Pass	Pass	-

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## Technical Bulletin

# SURFONIC® AG 1700 Solvent

**SURFONIC® AG 1700** solvent is a water-insoluble aromatic ester solvent for use in agrochemical formulations.

### APPLICATIONS

- Solvent/Co-solvent in emulsifiable concentrate (EC) formulations
- Solvent/Co-solvent in microemulsifiable concentrate (ME) formulations
- Solvent/Co-solvent in emulsion in water (EW) formulations

### BENEFITS

- High flash point
- Low phytotoxicity
- Low volatility
- Low odor

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## SALES SPECIFICATIONS

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Clear liquid	ST-30.1
Assay, wt%	99.0 min.	
Color, Pt-Co	40 max.	ST-30.12
Water, %	0.1 max	ST-31.53

\*Methods of Test are available upon request.

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## ADDITIONAL INFORMATION

### Regulatory Information

40CFR 180.910, 930, 940a

See SDS for all other regulatory information.

### Shelf Life

The product should retain its conformance to sales specifications for a period of at least two years from date of manufacture if the product is stored at less than 100°F in its undamaged, unopened, factory packaged container.

In general, the user should determine the suitability of any chemical compound, no matter what the shelf life or length of time of storage. Each user should conduct a sufficient investigation to establish the suitability of any product for his intended use.

### Typical Properties

Flash point, PMCC, °C (°F)	106 (222.8)
Boiling point, °C (°F)	249 (480)
Freeze point, °C (°F)	-22 (-7.6)
Density, g/mL, 25°C (77°F)	1.01
Weight, lb/US gal, 25°C (77°F)	8.4
Water solubility	Insoluble





## TOXICITY AND SAFETY

For additional information on the toxicity and safe handling of this product, consult the Safety Data Sheet prior to use of this product.

## HANDLING AND STORAGE

SURFONIC® AG 1700 solvent may be satisfactorily stored in carbon steel tanks using steel pipes and pumps.

For longer term color stability, it is recommended that the product be stored under an inert atmosphere.

SURFONIC® AG 1700 solvent is stable under normal temperatures and pressures. Avoid reaction with oxidizing agents and strong bases.

## AVAILABILITY

Product is available in drums of 441 pounds (200 kilograms) net weight. Small evaluation samples can be obtained by contacting any Indorama Ventures sales office.

I5348-0320

### Indorama Ventures Integrated Oxides & Derivatives

Headquarters  
24 Waterway Avenue.  
The Woodlands, TX 77380  
(346) 365-6056

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[www.indoramaventures.com](http://www.indoramaventures.com)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SURFONIC® AG 1700

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2023	400041011927	Date of first issue: 05.12.2023

Print Date 05.12.2023

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

#### 1.1 Product identifier

Trade name : SURFONIC® AG 1700

REACH Registration Number : 01-2120784844-39-0000

Substance name : butyl benzoate

CAS-No. : 136-60-7

EC-No. : 205-252-7

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

Use of the Sub-  
stance/Mixture : Industrial use

Recommended restrictions : Not applicable  
on use

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

Company name of supplier : Indorama Netherlands B.V.

Address : Markweg 201, Europoort Rotterdam 3198NB  
Netherlands

Telephone : +32 2 761-036-0

E-mail address of person  
responsible for the SDS : oxide.sds.global@indorama.net

#### 1.4 Emergency telephone

Emergency telephone number : Local (City)London: +44 20 3807 3798  
Toll Free: 1-800-424-9300

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

##### Labeling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

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### 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.

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

### 3.1 Substances

EC-No. : 205-252-7

#### Components

Remarks : No hazardous ingredients

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

General advice : Do not leave the victim unattended.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.  
First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
Avoid inhalation, ingestion and contact with skin and eyes.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Get medical attention if irritation develops and persists.

In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

None known.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : 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.

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## SECTION 6: Accidental release measures

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

Personal precautions : Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

# SAFETY DATA SHEET

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## SURFONIC® AG 1700

Version 1.0      Revision Date: 05.12.2023      SDS Number: 400041011927      Date of last issue: -  
Date of first issue: 05.12.2023

Print Date 05.12.2023

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : General industrial hygiene practice.

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

- Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : none
- Advice on common storage : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.
- Packaging material : Suitable material: Carbon steel

### 7.3 Specific end use(s)

- Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
butyl benzoate	Sewage treatment plant	10 mg/l

### 8.2 Exposure controls

#### Engineering measures

Use a local and/or general ventilation system.

#### Personal protective equipment

- Eye protection : Safety glasses  
Hand protection

- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Protective suit  
Respiratory protection : No personal respiratory protective equipment normally required.
- Protective measures : Wear suitable protective equipment.

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### SECTION 9: Physical and chemical properties

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

Physical state	:	No data available
Color	:	Clear
Odor	:	mild
Odor Threshold	:	No data available
Melting point/freezing point	:	-22 °C
Boiling point/boiling range	:	249 °C
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	106 °C Method: closed cup
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	6
Viscosity	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)	:	No data available
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	No data available
Relative density	:	1.01
Density	:	1.01 g/cm <sup>3</sup> (25 °C)
Relative vapor density	:	No data available
Particle characteristics	:	No data available
Particle size	:	No data available

#### 9.2 Other information

Explosives	:	No data available
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Oxidizing properties : No data available

Evaporation rate : No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Not applicable

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitization

##### Skin sensitization

Not classified based on available information.

##### Respiratory sensitization

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

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### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

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.

### Further information

#### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

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 Endocrine disrupting properties

#### Product:

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.



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### 12.7 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14: Transport information

### 14.1 UN number or ID number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75butan-1-ol

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable  
Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable  
UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable  
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0.03 %

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

### The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory  
TSCA : All substances listed as active on the TSCA inventory  
AIIC : On the inventory, or in compliance with the inventory  
DSL : All components of this product are on the Canadian DSL  
  
ENCS : On the inventory, or in compliance with the inventory  
ISHL : On the inventory, or in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
PICCS : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory  
NZIoC : On the inventory, or in compliance with the inventory

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

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### SECTION 16: Other information

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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