

Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 15.12.2022

Version: 1.0

Date previous version: not applicable

Previous version: none

Date / First version: 15.12.2022

Product: **Adlite® 1F**

(ID no. 30751972/SDS_GEN_DE/EN)

Date of print 29.03.2023

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

1.1. Product identifier

Adlite® 1F

UFI: 3SFU-U0A6-H009-NE7R

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

Relevant identified uses: Paper chemical

Recommended use: inorganic reducing agents, Bleaching agents

For the detailed identified uses of the product see appendix of the safety data sheet.

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Division Monomers

E-mail address: pss.monomers@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Self-heat. 1

H251 Self-heating: may catch fire.

Acute Tox. 4 (oral)

H302 Harmful if swallowed.

Eye Dam./Irrit. 2

H319 Causes serious eye irritation.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H251 Self-heating: may catch fire.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary Statements (Prevention):

P220 Keep away from clothing and other combustible materials.

P235 + P410 Keep cool. Protect from sunlight.

P264 Wash contaminated body parts thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing and eye protection or face protection.

Precautionary Statements (Response):

P312 Call a POISON CENTER or physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301 IF SWALLOWED:

P330 Rinse mouth

P337 If eye irritation persists:

P311 Call a POISON CENTER or physician.

Precautionary Statements (Storage):

P407 Maintain air gap between stacks or pallets.

P420 Store separately.

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P413 Store bulk masses greater than 1 kg/ 2,2 lbs at temperatures not exceeding 50 °C/122 °F.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Labeling of special preparations (GHS):

EUH031: Contact with acids liberates toxic gas.

Hazard determining component(s) for labelling: sodium dithionite, sodium carbonate

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not contain a substance above legal limits fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

sodium dithionite, stabilizing agents

Regulatory relevant ingredients

sodium dithionite

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Content (W/W): $\geq 75\%$ - $\leq 100\%$	Self-heat. 1
CAS Number: 7775-14-6	Acute Tox. 4 (oral)
EC-Number: 231-890-0	Eye Dam./Irrit. 2
REACH registration number: 01-2119520510-57	H251, H319, H302
INDEX-Number: 016-028-00-1	EUH031

sodium carbonate

Content (W/W): $\geq 10\%$ - $< 20\%$	Eye Dam./Irrit. 2
CAS Number: 497-19-8	H319
EC-Number: 207-838-8	
REACH registration number: 01-2119485498-19	
INDEX-Number: 011-005-00-2	

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

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Hazards: Respiratory sensitization may result in allergic (asthma-like) signs in the lower respiratory tract including wheezing, shortness of breath and difficulty breathing, the onset of which may be delayed. Risk of sulfur dioxide formation by reaction with gastric acid after swallowing.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

Water in copious quantities

Unsuitable extinguishing media for safety reasons:

water spray

Additional information:

Self inflammation possible by spray waters or water in small quantities.

5.2. Special hazards arising from the substance or mixture

Endangering substances: Sulphur dioxide

Advice: The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Risk of bursting. Cool endangered containers with water-spray. Avoid direct contact with water.

Separate containers involved in fire and keep under observation for at least 24 hours. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

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6.3. Methods and material for containment and cleaning up

For small amounts: Pick up in dry form. Dispose of absorbed material in accordance with regulations.

For large amounts: Pick up in dry form. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Breathing must be protected when large quantities are decanted without local exhaust ventilation. Do not open warm or swollen product containers. Remove persons to safety and alert fire brigade.

Protection against fire and explosion:

The product is liable to self-heating but not explosive.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from acids. Segregate from oxidants.

Suitable materials for containers: Carbon steel (Iron), enamelled, Stainless steel 1.4541, High density polyethylene (HDPE), Low density polyethylene (LDPE), tinned carbon steel (Tinplate), Stainless steel 1.4301 (V2), Stove-lacquer R 78433, Stainless steel 1.4306 (V2A)

Further information on storage conditions: Protect against moisture. Protect against heat. Keep container tightly closed in a cool, well-ventilated place. Maintain air gap between stacks or pallets.

Storage class according to TRGS 510 (originally VCI, Germany): (4.2) Pyrophoric or self-heating substances

Storage stability:

Large quantities of the product should not be kept in stockrooms with sprinkler installations due to a possible self inflammation by small quantities of water.

Improper storage may result in a pressure build-up in the storage containers.

The packed product is not damaged by low temperatures or by frost.

Protect from temperatures above: 50 °C

The packed product must be protected against exceeding the indicated temperature.

7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

PNEC

freshwater: 1 mg/l

marine water: 0,1 mg/l

sediment (freshwater):

Exposure of sediment is not expected

sediment (marine water):

Exposure of sediment is not expected

STP: 45,3 mg/l

DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 206 mg/m³

consumer:

Long-term exposure- systemic effects, Inhalation: 61 mg/m³

consumer:

Long-term exposure- systemic effects, oral: 7,9 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Breathing protection if gases/vapours are formed.

Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK). Self-contained breathing apparatus.

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

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polyvinylchloride (PVC) - 0.7 mm coating thickness

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Avoid contact with the skin, eyes and clothing. Do not breathe dust. Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	solid	
Form:	powder	
Colour:	white	
Odour:	pungent odour	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
decomposition point:	> 80 °C Thermal decomposition above the indicated temperature is possible.	
Boiling point:	The substance / product decomposes therefore not determined.	
Flammability:	Risk of spontaneous ignition.	(other)
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	

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Flash point:	not applicable, the product is a solid
Thermal decomposition:	80 °C Thermal decomposition above the indicated temperature is possible.
pH value:	9 - 11 (pH Meter) (10 %(m))
Viscosity, dynamic:	not applicable, the product is a solid
Solubility in water:	> 150 g/l (20 °C) slow decomposition
Partitioning coefficient n-octanol/water (log Kow):	The value has not been determined because the substance is inorganic.
Vapour pressure:	The substance / product decomposes therefore not determined.
Density:	approx. 2,3 g/cm ³ (20 °C) The data given are those of the active ingredient.
Relative vapour density (air):	The product is a non-volatile solid.

Particle characteristics

Particle size distribution: 60 - 100 µm

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive

Oxidizing properties

Fire promoting properties: not fire-propagating

Self-heating substances and mixtures

Self heating ability: It is a substance capable of spontaneous heating according to UN transport regulations class 4.2.

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases: Forms no flammable gases in the presence of water.

Corrosion to metals

Corrosive effects to metal are not anticipated.

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Other safety characteristics

Bulk density: approx. 1.000 kg/m³ (other)

Evaporation rate:
The product is a non-volatile solid.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

Reactions with water/air: Reaction with: water

Flammable gases: no

Toxic gases: yes

Which toxic gases: sulphur dioxide

Which Peroxides:

Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

Reacts with acids. Reacts with oxidizing agents. Reacts with damp air. Self inflammation possible by spray waters or water in small quantities. On contact with water, gaseous decomposition products are formed, which cause build-up of pressure in tightly closed containers.

10.4. Conditions to avoid

Temperature: > 50 °C

Avoid humidity.

10.5. Incompatible materials

Substances to avoid:

acids, oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products:

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Sulphur dioxide

SECTION 11: Toxicological Information

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

Acute toxicity

Experimental/calculated data:

ATE rat (oral): 2.358 mg/kg (Guideline 92/69/EEC, B.1)

Information on: sodium dithionite

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Information on: sodium dithionite

Experimental/calculated data:

LD50 rat (oral): approx. 2.500 mg/kg (BASF-Test)

The European Union (EU) has classified this substance as 'harmful'.

Information on: sodium carbonate

Experimental/calculated data:

LD50 rat (oral): 2.800 mg/kg

Information on: sodium metabisulphite

Experimental/calculated data:

LD50 rat (oral): 1.540 mg/kg (OECD Guideline 401)

Information on: Sodium sulphite

Experimental/calculated data:

LD50 rat (oral): approx. 2.610 mg/kg (OECD Guideline 401)

Information on: sodium dithionite

Experimental/calculated data:

LC50 rat (by inhalation): > 5,5 mg/l 4 h (OECD Guideline 403)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: sodium dithionite

Experimental/calculated data:

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LD50 rat (dermal): > 2.000 mg/kg (OECD Guideline 402)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Irritation

Experimental/calculated data:

Skin corrosion/irritation

: non-irritant

Serious eye damage/irritation

: Irritant.

Information on: sodium dithionite

Experimental/calculated data:

Serious eye damage/irritation

rabbit: Irritant. (OECD Guideline 405)

Information on: sodium carbonate

Experimental/calculated data:

Serious eye damage/irritation

rabbit: Irritant. (EPA Guideline)

Information on: sodium metabisulphite

Experimental/calculated data:

Serious eye damage/irritation

rabbit: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization

Information on: sodium dithionite

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

Germ cell mutagenicity

Information on: sodium dithionite

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

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Carcinogenicity

Information on: sodium dithionite

Assessment of carcinogenicity:

In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: sodium carbonate

Assessment of carcinogenicity:

No data available concerning carcinogenic effects. The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Information on: sodium dithionite

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Developmental toxicity

Information on: sodium dithionite

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Specific target organ toxicity (single exposure)

No data available.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Information on: sodium dithionite

Assessment of repeated dose toxicity:

Repeated oral uptake of the substance did not cause substance-related effects.

Information on: sodium carbonate

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Assessment of repeated dose toxicity:

No reliable data was available concerning repeated dose toxicity.

Aspiration hazard

Harmful if swallowed.

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: sodium dithionite

Toxicity to fish:

*LC50 (96 h) 62,3 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)*

Nominal concentration.

Information on: Sodium sulphite

Toxicity to fish:

*LC50 (96 h) 316 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)*

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The details of the toxic effect relate to the nominal concentration.

Information on: sodium metabisulphite

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Toxicity to fish:

LC50 (96 h) 316 mg/l, Leuciscus idus (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

Information on:sodium dithionite

Aquatic invertebrates:

EC50 (48 h) 98,3 mg/l, Daphnia magna (Directive 79/831/EEC, static)

Nominal concentration.

Information on:Sodium sulphite

Aquatic invertebrates:

EC50 (48 h) 59 mg/l, Daphnia magna (Directive 79/831/EEC, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

Information on:sodium metabisulphite

Aquatic invertebrates:

EC50 (48 h) 89 mg/l, Daphnia magna (Directive 79/831/EEC, static)

Nominal concentration.

Information on:sodium dithionite

Aquatic plants:

EC50 (72 h) 206 mg/l (growth rate), Scenedesmus subspicatus (DIN 38412 Part 9, static)

Nominal concentration.

Information on:Sodium sulphite

Aquatic plants:

EC50 (72 h) 31,9 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

Information on:sodium metabisulphite

Aquatic plants:

EC50 (72 h) 43,8 mg/l (growth rate), algae (other, static)

Nominal concentration.

Information on:sodium dithionite

Microorganisms/Effect on activated sludge:

EC20 (3 h) 120,5 mg/l, (OECD Guideline 209, aquatic)

Information on:Sodium sulphite

Microorganisms/Effect on activated sludge:

EC50 (3 h) > 1.000 mg/l, (OECD Guideline 209, static)

The details of the toxic effect relate to the nominal concentration.

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*EC10 (17 h) 260 mg/l, Pseudomonas putida (DIN 38412 Part 8, aquatic)
Nominal concentration.*

Information on: sodium metabisulphite

Microorganisms/Effect on activated sludge:

No observed effect concentration (3 h) > 1.000 mg/l, (OECD Guideline 209, aquatic)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Inorganic product which cannot be eliminated from water by biological purification processes.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

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Date / Revised: 15.12.2022

Version: 1.0

Date previous version: not applicable

Previous version: none

Date / First version: 15.12.2022

Product: **Adlite® 1F**

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12.8. Additional information

Adsorbable organically-bound halogen (AOX):
This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. Higher concentrations of the substance may cause a strong chemical oxygen consumption in biological sewage-treatment plants and/or waterways.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN1384

UN proper shipping name: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

Transport hazard class(es): 4.2

Packing group: II

Environmental hazards: no

Special precautions for user: Tunnel code: D/E
Protect from wetness

RID

UN number or ID number: UN1384

UN proper shipping name: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

Transport hazard class(es): 4.2

Packing group: II

Environmental hazards: no

Special precautions for user: Protect from wetness

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Inland waterway transport

ADN

UN number or ID number: UN1384

UN proper shipping name: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

Transport hazard class(es): 4.2

Packing group: II

Environmental hazards: no

Special precautions for user: Protect from wetness

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 1384

UN proper shipping name: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

Transport hazard class(es): 4.2

Packing group: II

Environmental hazards: no

Special precautions for user: Marine pollutant: NO

EmS: F-A; S-J

Protect from wetness

Air transport

IATA/ICAO

UN number or ID number: UN 1384

UN proper shipping name: SODIUM DITHIONITE

Transport hazard class(es): 4.2

Packing group: II

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user: Protect from wetness

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14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 75

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

Water hazard class (§8/§10 AwSV (Self-classification of the mixture according to calculation method)): (1) Weakly water polluting.

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

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Version: 1.0

Date previous version: not applicable

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SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Acute Tox. 4 (oral)

Aquatic Acute 3

Eye Dam./Irrit. 2A

Self-heat. 1

Self-heat.

Self-heating substances and mixtures

Acute Tox.

Acute toxicity

Eye Dam./Irrit.

Serious eye damage/eye irritation

H251

Self-heating: may catch fire.

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

EUH031

Contact with acids liberates toxic gas.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.