

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 29.07.2021

Version: 3.0

Date previous version: 31.07.2017

Previous version: 2.0

Product: **Sorgene Xtra**

(ID no. 30669044/SDS_GEN_GB/EN)

Date of print 29.07.2021

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

1.1. Product identifier

Sorgene Xtra

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

Relevant identified uses: biocide

1.3. Details of the supplier of the safety data sheet

Company:BASF SE
67056 Ludwigshafen
GERMANYContact address:BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-north@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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.

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

| | |
|----------------------------------|--|
| Ox. Liq. 2 | H272 May intensify fire; oxidizer. |
| Met. Corr. 1 | H290 May be corrosive to metals. |
| Acute Tox. 4 (oral) | H302 Harmful if swallowed. |
| Acute Tox. 4 (Inhalation - mist) | H332 Harmful if inhaled. |
| Acute Tox. 4 (dermal) | H312 Harmful in contact with skin. |
| Skin Corr./Irrit. 1B | H314 Causes severe skin burns and eye damage. |
| Eye Dam./Irrit. 1 | H335 May cause respiratory irritation. |
| STOT SE 3 | H335 May cause respiratory irritation. |
| Aquatic Chronic 1 | H410 Very toxic to aquatic life with long lasting effects. |

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

2.2. Label elements

Globally Harmonized System (GHS) in accordance with UK regulations.

Pictogram:



Signal Word:

Danger

Hazard Statement:

| | |
|--------|---|
| H272 | May intensify fire; oxidizer. |
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

Precautionary Statement:

| | |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read carefully and follow all instructions. |

Precautionary Statements (Prevention):

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| | |
|------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P260 | Do not breathe dust/gas/mist/vapours. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P220 | Keep away from clothing and other combustible materials. |
| P270 | Do not eat, drink or smoke when using this product. |
| P234 | Keep only in original packaging. |
| P264 | Wash contaminated body parts thoroughly after handling. |

Precautionary Statements (Response):

| | |
|--------------------|--|
| P310 | Immediately call a POISON CENTER or physician. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P361 + P364 | Take off immediately all contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |
| P390 | Absorb spillage to prevent material damage. |
| P370 + P378 | In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction. |

Precautionary Statements (Storage):

| | |
|-------------|--|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P406 | Store in a corrosion-resistant container with a resistant inner liner. |

Precautionary Statements (Disposal):

| | |
|------|---|
| 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. |
|------|---|

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

Hazard determining component(s) for labelling: hydrogen peroxide solution... %, peracetic acid . . .
%, acetic acid ... %

2.3. Other hazards

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

See section 12 - Results of PBT and vPvB assessment.

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.

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SECTION 3: Composition/Information on Ingredients**3.1. Substances**

Not applicable

3.2. MixturesChemical natureBiocidal product
Cleaning AgentHazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

| hydrogen peroxide solution... %

Content (W/W): > 0 % - < 24 %

CAS Number: 7722-84-1

EC-Number: 231-765-0

REACH registration number: 01-2119485845-22

INDEX-Number: 008-003-00-9

Ox. Liq. 1

Acute Tox. 4 (Inhalation - vapour)

Acute Tox. 4 (oral)

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

STOT SE 3 (irr. to respiratory syst.)

Aquatic Chronic 3

H271, H335, H314, H302 + H332, H412

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: >= 35 %

Ox. Liq. 1, : >= 70 %

Eye Dam./Irrit. 1: 8 - < 50 %

Skin Corr./Irrit. 2: 35 - < 50 %

Skin Corr./Irrit. 1A: >= 70 %

Ox. Liq. 2, : 50 - < 70 %

Eye Dam./Irrit. 2: 5 - < 8 %

Skin Corr./Irrit. 1B: 50 - < 70 %

| acetic acid ... %

Content (W/W): > 0 % - < 11 %

CAS Number: 64-19-7

EC-Number: 200-580-7

REACH registration number: 01-2119475328-30

INDEX-Number: 607-002-00-6

Flam. Liq. 3

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

H226, H314

Specific concentration limit:

Skin Corr./Irrit. 2: 10 - < 25 %

Eye Dam./Irrit. 2: 10 - < 25 %

Skin Corr./Irrit. 1A: >= 90 %

Skin Corr./Irrit. 1B: 25 - < 90 %

| peracetic acid ... %

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| | |
|--------------------------------|---|
| Content (W/W): > 0 % - < 5.4 % | Org. Perox. D |
| CAS Number: 79-21-0 | Flam. Liq. 3 |
| EC-Number: 201-186-8 | Acute Tox. 4 (Inhalation - vapour) |
| INDEX-Number: 607-094-00-8 | Acute Tox. 4 (oral) |
| | Acute Tox. 4 (dermal) |
| | Skin Corr./Irrit. 1A |
| | Eye Dam./Irrit. 1 |
| | STOT SE 3 (irr. to respiratory syst.) |
| | Aquatic Acute 1 |
| | Aquatic Chronic 1 |
| | M-factor acute: 1 |
| | M-factor chronic: 10 |
| | H226, H242, H335, H314, H302 + H312 + H332, H400, H410 |
| | <u>Specific concentration limit:</u> |
| | STOT SE 3, irr. to respiratory syst.: >= 1 % |

| Alcohols, C9-11, ethoxylated

| | |
|--------------------------------|---------------------|
| Content (W/W): > 0 % - < 1.1 % | Acute Tox. 4 (oral) |
| CAS Number: 68439-46-3 | Eye Dam./Irrit. 1 |
| | H302, H318 |

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

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler. If not breathing, give artificial respiration.

On skin contact:

Remove contaminated clothing. Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

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

On ingestion:

Immediate medical attention required. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Take patient to hospital immediately.

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

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Symptoms: respiratory disorders, coughing, development of pulmonary edema, pneumonitis, nosebleeds, swelling of tissues, nausea, vomiting, diarrhea, dyspnea

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 spray, foam, dry powder, carbon dioxide

5.2. Special hazards arising from the substance or mixture

Advice: Has a fire-promoting effect due to release of oxygen.

Endangering substances: carbon monoxide, Carbon dioxide, nitrogen oxides

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

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

6.4. Reference to other sections

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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

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Protect from direct sunlight. Keep away from heat. Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

64-19-7: acetic acid ... %

TWA value 25 mg/m³ ; 10 ppm (OEL (EU))

indicative

TWA value 25 mg/m³ ; 10 ppm (WEL/EH 40 (UK))

STEL value 50 mg/m³ ; 20 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

7722-84-1: hydrogen peroxide solution... %

TWA value 1.4 mg/m³ ; 1 ppm (WEL/EH 40 (UK))

STEL value 2.8 mg/m³ ; 2 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

7722-84-1: hydrogen peroxide solution... %

STEL value 2.8 mg/m³ ; 2 ppm (WEL/EH 40 (UK))

TWA value 1.4 mg/m³ ; 1 ppm (WEL/EH 40 (UK))

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom). For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

8.2. Exposure controls

Personal protective equipment

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Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

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

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | | |
|------------------------|--|--------------|
| Form: | liquid | |
| Colour: | colourless | |
| Odour: | pungent | |
| Odour threshold: | Not determined since harmful by inhalation. | |
| pH value: | 1.3 (100 %(m)) | |
| Freezing point: | approx. -42 °C | (calculated) |
| Boiling point: | approx. 105 °C | (calculated) |
| Flash point: | No flash point - Measurement made up to the boiling point. | |
| Evaporation rate: | not applicable | |
| Flammability: | not flammable | |
| Lower explosion limit: | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. | |

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Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Ignition temperature: approx. 415 - 425 °C

Vapour pressure: approx. 32 hPa (calculated)
(25 °C)

Density: approx. 1.1 g/cm³
(19.5 - 20.5 °C)

Relative density: approx. 1.1

Relative vapour density (air):

not applicable

Solubility in water: miscible

Partitioning coefficient n-octanol/water (log Kow):

The statements are based on the properties of the individual components.

Information on: acetic acid ... %

Partitioning coefficient n-octanol/water (log Kow): -0.17

(25 °C; pH value: 7)

Literature data.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, kinematic: approx. 0.827 mm²/s
(40 °C)

Explosion hazard: not explosive

Fire promoting properties: Oxidizing.

9.2. Other information

SADT: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

SECTION 10: Stability and Reactivity

10.1. Reactivity

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

Corrosion to metals: Corrosive effect on: carbon steel (iron)

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Contact with combustible material may cause fire. Reacts as a strong oxidizing agent with all oxidizable organic and inorganic substances.

10.4. Conditions to avoid

Avoid contamination. Avoid heating under confinement. Heating may cause pressure build-up and possible rupture of the container. See SDS section 7 - Handling and storage.

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10.5. Incompatible materials

Substances to avoid:

acids, bases, metal, heavy metal salts, reducing agents, organic substances, flammable, oxidizable substances

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Of moderate toxicity after short-term skin contact.

| *Information on: peracetic acid . . . %*

Experimental/calculated data:

| *LD50 rat (oral): 1,922 mg/kg*

| *Information on: peracetic acid . . . %*

Experimental/calculated data:

| *LC50 rat (by inhalation): 4 mg/l 4 h*

| *Information on: peracetic acid . . . %*

Experimental/calculated data:

| *LD50 rabbit (dermal): 1,147 mg/kg*

Irritation

Assessment of irritating effects:

May cause severe damage to the eyes. Corrosive! Damages skin and eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Corrosive.

Serious eye damage/irritation rabbit: Risk of serious damage to eyes.

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components.

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| *Information on: peracetic acid . . . %*
| *Experimental/calculated data:*
| *guinea pig: Non-sensitizing. (OECD Guideline 406)*

| *Information on: hydrogen peroxide solution... %*
| *Experimental/calculated data:*
| *guinea pig: Non-sensitizing.*
| -----

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

| *Information on: hydrogen peroxide solution... %*
| *Assessment of mutagenicity:*
| *The substance was mutagenic in various test systems with bacterias and cell cultures; however,*
| *these results could not be confirmed in tests with mammals.*
| -----

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

| *Information on: hydrogen peroxide solution... %*
| *Assessment of teratogenicity:*
| *The substance did not cause malformations in animal studies; however, toxicity to development was*
| *observed at high doses that were toxic to the parental animals.*
| -----

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

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

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

| *Information on: hydrogen peroxide solution... %*

| *Assessment of repeated dose toxicity:*

| *After repeated administration the prominent effect is the induction of corrosion.*

| *Information on: acetic acid ... %*

| *Assessment of repeated dose toxicity:*

| *After repeated administration the prominent effect is the induction of corrosion.*

Aspiration hazard

No aspiration hazard expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

| *Information on: peracetic acid . . . %*

| *Toxicity to fish:*

| *(96 h) 1.1 mg/l, Lepomis macrochirus (semistatic)*

| *Information on: peracetic acid . . . %*

| *Aquatic invertebrates:*

| *(48 h) > 300 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)*

| *Information on: peracetic acid . . . %*

| *Aquatic plants:*

| *EC10 (72 h) 300 mg/l (growth rate), Skeletonema costatum (OECD Guideline 201, static)*

| *EC50 (72 h) 0.16 mg/l (growth rate), Pseudokirchneriella subcapitata (static)*

| *Information on: peracetic acid . . . %*

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Chronic toxicity to fish:

| (33 d) 0.00069 mg/l, *Brachydanio rerio* (OECD Guideline 210, Flow through.)

| *Information on: peracetic acid . . . %*

| *Chronic toxicity to aquatic invertebrates:*

| (21 d) 0.0121 mg/l, *Daphnia magna* (Flow through.)

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product has not been tested. The statement has been derived from the properties of the individual components.

| *Information on: acetic acid ... %*

| *Assessment biodegradation and elimination (H₂O):*

| *Readily biodegradable (according to OECD criteria).*

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

| *Information on: acetic acid ... %*

| *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: The product has not been tested. The statement has been derived from the properties of the individual components.

| *Information on: acetic acid ... %*

| *Assessment transport between environmental compartments:*

| *Volatility: The substance will not evaporate into the atmosphere from the water surface.*

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

12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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12.7. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

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

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14: Transport Information

Land transport

ADR

UN number: UN3149
UN proper shipping name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID, MIXTURE, STABILIZED
Transport hazard class(es): 5.1, 8, EHSM
Packing group: II
Environmental hazards: yes
Special precautions for user: Tunnel code: E

RID

UN number: UN3149
UN proper shipping name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID, MIXTURE, STABILIZED
Transport hazard class(es): 5.1, 8, EHSM
Packing group: II
Environmental hazards: yes
Special precautions for user: None known

Inland waterway transport

ADN

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

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Product: **Sorgene Xtra**

(ID no. 30669044/SDS_GEN_GB/EN)

Date of print 29.07.2021

| | |
|-------------------------------|--|
| UN number | UN3149 |
| UN proper shipping name: | HYDROGEN PEROXIDE AND PEROXYACETIC ACID, MIXTURE, STABILIZED |
| Transport hazard class(es): | 5.1, 8, EHSM |
| Packing group: | II |
| Environmental hazards: | yes |
| Special precautions for user: | None known |

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

| | |
|-------------------------------|--|
| UN number: | UN 3149 |
| UN proper shipping name: | HYDROGEN PEROXIDE AND PEROXYACETIC ACID, MIXTURE, STABILIZED |
| Transport hazard class(es): | 5.1, 8, EHSM |
| Packing group: | II |
| Environmental hazards: | yes |
| | Marine pollutant: YES |
| Special precautions for user: | None known |

Air transport

IATA/ICAO

| | |
|-------------------------------|--|
| UN number: | UN 3149 |
| UN proper shipping name: | HYDROGEN PEROXIDE AND PEROXYACETIC ACID, MIXTURE, STABILIZED |
| Transport hazard class(es): | 5.1, 8 |
| Packing group: | II |
| Environmental hazards: | No Mark as dangerous for the environment is needed |
| Special precautions for user: | None known |

14.1. UN number

See corresponding entries for "UN 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.

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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. Transport in bulk according to Annex II of MARPOL and the IBC Code

| | |
|---------------------|---------------|
| Regulation: | Not evaluated |
| Shipment approved: | Not evaluated |
| Pollution name: | Not evaluated |
| Pollution category: | Not evaluated |
| Ship Type: | Not evaluated |

Further information

This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

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: 3

Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this SDS.

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

List entry in regulation: E1

List entry in regulation: P8

The product contains a substance (Annex I / Annex II) regulated under Regulation (EU) 2019/1148 - "marketing and use of explosives precursors". This may result in obligations for your company according to the statutory requirements of the aforementioned regulation and the respective national implementing regulations.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

15.2. Chemical Safety Assessment

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Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

| | |
|--------------------|---|
| Ox. Liq. | Oxidising liquids |
| Met. Corr. | Corrosive to metals |
| Acute Tox. | Acute toxicity |
| Skin Corr./Irrit. | Skin corrosion/irritation |
| Eye Dam./Irrit. | Serious eye damage/eye irritation |
| STOT SE | Specific target organ toxicity — single exposure |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic |
| Flam. Liq. | Flammable liquids |
| Org. Perox. | Organic Peroxides |
| Aquatic Acute | Hazardous to the aquatic environment - acute |
| H272 | May intensify fire; oxidizer. |
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |
| H271 | May cause fire or explosion; strong oxidizer. |
| H302 + H332 | Harmful if swallowed or if inhaled |
| H412 | Harmful to aquatic life with long lasting effects. |
| H226 | Flammable liquid and vapour. |
| H242 | Heating may cause a fire. |
| H302 + H312 + H332 | Harmful if swallowed, in contact with skin or if inhaled |
| H400 | Very toxic to aquatic life. |
| H318 | Causes serious eye damage. |

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

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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.