

According to directive 1907/2006/EC, 2020/878
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Trade name: A1 Retarder

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

1.1 Product identification:

Product name: A1 Retarder
Registration number (REACH): not relevant (mixture)

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

Relevant identified uses: Additive
Processing aid
A1 Liquid/Powder system
Professional use
Consumer use

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium:

Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and its amendments.

This mixture does not meet the criteria for classification according to Regulation No 1272/2008/EC.

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:

Not required.

2.3 Other hazards:

Results of PBT and vPvB assessment

Does not contain any PBT/vPvB substance at a concentration of $\geq 0.1\%$.

Endocrine-disrupting properties

Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

The product does not contain any (additional) ingredients that are classified according to the supplier's current knowledge and contribute to the classification of the product and should therefore be mentioned in this section.

This product does not meet the criteria for classification in any of the hazard classes according to GHS.

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SECTION 4: First aid measures

4.1 Description of first-aid measures:

General comments

Do not leave the victim unattended.
Move victim out of danger zone.
If unconscious, place victim in stable side position.
Do not administer anything by mouth.
Remove contaminated clothing immediately.
If in doubt or if symptoms persist, consult a doctor.

When inhaled

Provide fresh air.
In case of irregular breathing or respiratory arrest, consult a doctor immediately and administer first aid.
In case of respiratory irritation, consult a doctor.

In case of skin contact

Wash with plenty of soap and water.
In case of skin irritation or rash: consult a doctor.

On eye contact

Rinse with clean, flowing water for at least 15 minutes while keeping the eyelids open.
Remove contact lenses, if possible.
Keep rinsing.
In case of persistent eye irritation: consult a doctor.

If swallowed

Rinse mouth with water (only if the person is conscious).
If you feel unwell, consult a doctor.

4.2 Main acute and delayed symptoms and effects:

No symptoms and effects are known so far.

4.3 Indication of immediate medical attention and special treatment required:

None.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Spray water; Dry extinguishing powder; Carbon dioxide (CO₂);
Match fire-fighting measures to environment.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products

Hazardous fumes/smoke may be produced during fire. Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3 Advice for firefighters:

In case of fire and/or explosion, avoid breathing fumes.
Match fire-fighting measures to environment.
Do not discharge extinguishing water into drains or surface water.
Collect contaminated firefighting water separately.
With normal precautions, extinguish from a reasonable distance.

Specially protected equipment for firefighters

Self-contained breathing apparatus (EN 133).
Standard protective clothing for firefighters.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

For persons other than emergency services

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Getting people to safety.
Ventilate the affected area.

For the emergency services

Wear respirators when exposed to fumes/dust particles/aerosols/gases.

Use the necessary personal protective equipment.

6.2 Environmental precautions:

Advice on how to contain the spill

Covering drains.

Advice on how to clean up the spill

Wipe off with absorbent material (e.g. cloth, fleece).

Appropriate containment methods

Use of absorbent materials.

Other information relating to the discharge or release

Put into suitable container for disposal.

Ventilate the affected area.

6.3 Methods and materials for containment and cleaning:

Cleaning methods: Immediately cover spillages with inert substances (e.g. sand, acid binder, universal binder).

Pick up mechanically and dispose of in suitable containers. Treat the absorbed material according to section "waste storage".

6.4 Reference to other sections:

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Instructions for disposal: see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

Recommendations

Measures to prevent fire and aerosol or dust formation

Use of local and general ventilation.

Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use.

Do not eat, drink or smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Do not store food and drink together with chemicals.

For chemicals, do not use packaging intended for foodstuffs.

Keep away from food, drink and animal feed.

7.2 Conditions for safe storage, including incompatibilities:

Managing the associated risks

Ignition hazard

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition.

No smoking.

Incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Managing the consequences

Protect against external exposure, such as high temperatures, UV radiation/sunlight, frost.

Consideration of other advice

Store in a well-ventilated place.

Keep in tightly closed container.

Compatible packaging

Keep only in the original packaging.

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7.3 Specific end use

There is no further information.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

National limits

No information available.

Relevant DNEL/DMEL/PNEC and other threshold values

No data available.

8.2 Exposure control measures:

Appropriate technical measures

General ventilation.

Provide eye showers and emergency showers in the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear safety goggles with side protection (EN 166).

Skin protection

Protective clothing (EN 340 & EN ISO 13688).

Hand protection

Wear suitable gloves.

Determine leak tightness/impermeability before use.

It is recommended that in case of special applications, the chemical resistance of the safety gloves mentioned above be checked with the supplier of the gloves.

Suitable are EN 374-tested gloves against chemicals.

The choice of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer.

As the product is composed of several substances, the durability of the glove materials cannot be calculated in advance and must therefore be tested before use.

Breakthrough time of glove material

Use gloves with a minimum breakthrough time of the glove material: >10 minutes (permeation level: 1).

Other protective equipment

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

Wash hands thoroughly after use.

Protection of respiratory organs

In case of inadequate ventilation, wear suitable respiratory protection.

Full/half/quarter mask (EN 136/140).

Managing environmental exposure

Take appropriate measures to prevent uncontrolled release into the environment.

Avoid getting the product into drains, surface water or groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	liquid
Colour:	colourless
Odour:	odourless
Melting/freezing point:	0°C calculated value, based on a component of the mixture
Boiling point or initial boiling point and boiling range:	100°C calculated value, based on a component of the mixture
Flammability:	this material is flammable, but will not easily catch fire
Lower and upper explosion limit:	LEL: UEL: not determined

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Flash point:	no data available
Self-ignition temperature:	undetermined
Decomposition temperature:	no data available
pH value:	undetermined
Kinematic viscosity:	undetermined
Solubility:	undetermined
Partition coefficient n-octanol/water (log value):	this information is not available
Vapour pressure:	2.3 kPa at 20°C calculated value based on a component of the mixture

Density and/or relative density

Density:	not determined
Relative vapour density:	no information is available with this property
Particle characteristics:	irrelevant (liquid)

9.2 Other information

Information on physical hazard classes:	hazard classes according to GHS (physical hazards): not relevant
Other safety features:	there is no further information

SECTION 10: Stability and reactivity

10.1 Reactivity:

This material is not reactive under normal ambient conditions.

10.2 Chemical Stability:

The material is stable under normal atmospheric conditions and expected temperature and pressure during storage and handling.

10.3 Potential Hazardous Reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

No specific conditions are known to be avoided.

10.5 Chemically interacting Materials:

Oxidising agents (oxidising).

10.6 Hazardous Decomposition Products:

Known and reasonably foreseeable hazardous decomposition products produced during use, storage, discharge and heating are not known.

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

No test data for the mixture as a whole are available.

Classification procedure

The method of classification of mixtures based on the components of the mixture (sum formula).

Classification according to GHS (1272/2008/EC, CLP).

This mixture does not meet the criteria for classification according to Regulation No 1272/2008/EC.

Acute toxicity

Is not classifiable as acutely toxic.

Skin corrosion/irritation

Does not classify as caustic/irritating to the skin.

Serious eye damage/eye irritation

Cannot be classified as severely eye-injurious or irritating to the eyes.

Respiratory or skin sensitisation

Is not classifiable as inhalant or skin allergenic.

Mutagenicity in gametes

Is not classifiable as mutagenic in germ cells (mutagenic).

Carcinogenicity

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Is not classifiable as carcinogenic.

Reproductive toxicity

Is not classifiable as a reproductive toxicant.

Specific target organ toxicity at single exposure

Cannot be classified as toxic to specific target organs (single exposure).

Specific target organ toxicity on repeated exposure

Cannot be classified as toxic to specific target organs (repeated exposure).

Inhalation hazard

Is not classifiable as dangerous in aspiration.

11.2 Information on other hazards

Endocrine-disrupting properties

Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

Other information

There is no further information.

SECTION 12: Ecological information

12.1 Toxicity:

Cannot be classified as hazardous to the aquatic environment.

12.2 Persistence and Degradability:

No data are available.

12.3 Bioaccumulation:

No data are available.

12.4 Mobility in soil:

No data are available.

12.5 Results of PBT and vPvB assessment:

Does not contain any PBT/vPvB substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

No data are available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Information regarding wastewater discharge

Do not throw waste into the sink.

Avoid discharge into the environment.

Waste treatment of containers/packaging

Fully emptied containers can be recycled.

Contaminated packaging can be treated like the substance itself.

Comments

Please note the relevant national or regional provisions.

Waste is separated into the categories that can be treated separately by local or national waste management services.

SECTION 14: Information relating to transport

14.1 UN number

The transport of this substance is not subject to regulations.

14.2 Proper cargo name according to UN model regulations

The transport of this substance is not subject to regulations.

14.3 Transport hazard class(es)

The transport of this substance is not subject to regulations.

14.4 Packing group

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The transport of this substance is not subject to regulations.

14.5 Environmental hazards

The transport of this substance is not subject to regulations.

14.6 Special precautions for the user

The transport of this substance is not subject to regulations.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

No data available.

Further information for UN regulations

Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - supplementary information

Not subject to the IMDG.

International Civil Aviation Organisation (ICAO-IATA/DGR) - supplementary information

Not subject to ICAO-IATA.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

Relevant European Union (EU) provisions

Restrictions in accordance with REACH, Annex XVII

None of the ingredients are listed.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

Not granted.

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water framework directive (WFD)

None of the ingredients are listed.

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POPs)

None of the ingredients are listed.

National regulations (Netherlands)

SZW list CMR effects

None of the ingredients are listed.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out by the supplier for this mixture.

SECTION 16: Other information

Abbreviations and acronyms

ADN. Accord européen relatif au transport internationale des marchandises Dangereuses par voies de navigation Intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways). ADR. Accord relatif au transport internationale des marchandises Dangereuses par route (Agreement concerning the international carriage of dangerous goods by road). CLP. Regulation (EC) No 1272/2008 on the classification, labelling and packaging (CLP) of substances and mixtures. CMR. Carcinogenic, Mutagenic or Reproductive toxicity. DGR. Dangerous Goods Regulations, regulations for the carriage of dangerous goods, see IATA/DGR. DMEL. Derived Minimal Effect Level. DNEL. Derived No-Effect Level. ED. Endocrine disruptor. GHS. "Globally Harmonised System of Classification and Labelling of Chemicals" developed by the United Nations. IATA. International Air Transport Association. IATA/DGR. Dangerous Goods Regulations (DGR) for aviation (IATA). ICAO. International Civil Aviation Organisation. IMDG. International Maritime

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Dangerous Goods Code (IMDG Code). LEL. Lower explosion limit (LEL). PBT. Persistent, Bioaccumulative and Toxic. PNEC. Predicted no-effect concentration. REACH. Registration, Evaluation, Authorisation and Restriction of Chemicals. RID. Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations on the International Carriage of Dangerous Goods by Rail). SVHC. Substance of very high concern. UEL. Upper explosion limit (UEL). ZPzB. Very persistent and very bioaccumulative.

Key literature references and data sources

Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures.
Regulation (EC) No 1907/2006 (REACH), amended by 2020/878/EU.
Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for aviation (IATA).

Classification procedure

Physical and chemical properties:

The classification is based on the results of the tested mixtures.

Health hazards, Environmental hazards:

The method of classification of mixtures based on the components of the mixture (sum formula).

Disclaimer

This information is based on the current state of our knowledge. This ViB is compiled and intended exclusively for this product. For this product it is not legally required to provide a ViB under Article 31 of the REACH Regulation because the product is not classified as hazardous according to the CLP Regulation. This document has been prepared as a voluntary additional service to provide general safety information.

Safety data sheet in accordance with Regulation (EC) No 1907/2006 (REACH) amended by 2020/878/EU