Safety Data Sheet

According to (EC) No. 1907/2006
Day of issue: 29. April 2019
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Enhanced Strept-AP, Cat. No. 5150
1.2. Relevant identified uses of the substance or mixture and uses advised against
For research and analysis. Restricted to professional users.
1.3. Details of the supplier of the safety data sheet
See below
Responsible person for the safety data sheet (e-mail): altox@altox.dk
1.4. Emergency telephone number
UK NHS: Dial 111 or 0845 4647

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
CLP (1272/2008): None
2.2. Label elements
None
2.3. Other hazards
Contains Sodium azide. Contact with acids may form toxic gases.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

% w/w	Substance Name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification
<0.1	Sodium azide*	26628-22-8	247-852-1	011-004-00-7	-	Acute Tox. 2;H300 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 EUH032

* The substance has an EU occupational exposure limit.

Wording of hazard statements - see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move the affected person to fresh air. Keep at rest. If needed: get medical attention.
Skin contact: Remove contaminated clothing and wash with soap and water. If irritation persists: Seek medical advice.
Eye contact: Flush with water or physiological salt water, holding eye lids open, remember to remove contact lenses, if any. If irritation persists: Seek medical advice.
Ingestion: Rinse mouth and drink plenty of water. Keep under surveillance. If needed: get medical attention.

SECTION 4: First aid measures (continued)

4.2. Most important symptoms and effects, both acute and delayed
May cause slight irritation of skin, eyes and gastrointestinal tract.
4.3. Indication of any immediate medical attention and special treatment needed
Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Not combustible; aqueous solution.
5.2. Special hazards arising from the substance or mixture
Not relevant (the product is not combustible).
5.3. Advice for firefighters
When extinguishing surrounding fires use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment - see section 8.
6.2. Environmental precautions
Avoid empty into drains. If large amounts of the mixture contaminate sewages, inform appropriate authorities in accordance with local regulations.
6.3. Methods and material for containment and cleaning up
Absorb spilled liquid and place spillage in a plastic container. Further handling of spillage - see section 13.
6.4. Reference to other sections
See references above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin, eyes and clothing.
7.2. Conditions for safe storage, including any incompatibilities
See product label. Keep container closed when not in use.
7.3. Specific end use(s)
See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational exposure limits (EH40/2018):

	Long-term exposure limit (8-hr TWA)	Short-term exposure limit (15-minute STEL)	Comment
Sodium azide	0.1 mg/m^3	0.3 mg/m^3	Sk

Sk: Can be absorbed through the skin
DNEL/PNEC: No CSR.
8.2. Exposure controls
Appropriate engineering controls: None particular.
Personal protective equipment:
Inhalation: Not relevant during normal use.
Skin: In case of prolonged or repeated work: Wear protective gloves (EN374) e.g. of nitrile. Breakthrough time: approximately 3 hours.
Eyes: Not relevant during normal use. Safety goggles (EN166) when there is risk of eye contact.
Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Colourless liquid
Odour:	Negligible
Odour threshold:	Not relevant
pH:	8.6-8.8
Melting point / freezing point (°C):	No available data
Initial boiling point and boiling range (°C):	~ 100
Decomposition temperature (°C):	No available data
Flash point (°C):	Not relevant
Evaporation rate:	No available data
Flammability (solid, gas):	Not relevant
Upper/lower flammability or explosive limits (vol.-%):	Not relevant
Vapour pressure (hPa, 20°C):	No available data
Vapour density (air=1):	No available data
Relative density (g/cm^3):	No available data
Solubility:	Completely soluble in water
Partition coefficient: n-octanol/water, Log K_{ow}:	No available data
Auto-ignition temperature (°C):	Not relevant
Viscosity:	No available data
Explosive properties:	Not relevant
Oxidising properties:	Not relevant

9.2. Other information

None relevant

SECTION 10: Stability and reactivity

10.1. Reactivity

No available data.

10.2. Chemical stability

Stable under normal conditions - see section 7.

10.3. Possibility of hazardous reactions

None known

10.4. Conditions to avoid

Excessive heating and freezing

10.5. Incompatible materials

Sodium azide forms a very toxic gas (hydrogen azide) in contact with acids. Sodium azide may react with lead and copper, to form explosive metalazides.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Hazard class	Data (Sodium azide)	Test	Data source
Acute toxicity:			
Inhalation	LC_{50} (rat) = 37 mg/m^3/4H	No info	RTECS
Dermal	LD_{50} (rabbit) = 20 mg/kg	No info	RTECS
Oral	LD_{50} (rat) = 27 mg/kg	No info	RTECS
Corrosion/irritation:	No skin or eye irritation	OECD 404, 405	ECHA
Sensitization:	No skin sensitization, guinea pig	OECD 429	ECHA
CMR:	TD_{Lo} = 2730 mg/kg/78W (rat, continuous) "Equivocal tumorigenic agent" TD_{Lo} = 177.5 mg/kg (rat, 6-19 days after birth): "Effects on embryo or foetus"	No info No info	RTECS RTECS

Information on likely routes of exposure: Skin, lungs and ingestion.

Symptoms:

Inhalation: May cause irritation to the airways.

Skin: May cause slight irritation to skin with redness.

Eye: May cause irritation to eyes.

Ingestion: May cause irritation of the gastrointestinal tract.

Chronic effects: Sodium azide in its pure form does affect the CNS, is a possible mutagen and have caused carcinogenic effect in rats. No conclusive data for humans.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic	Data (Sodium azide)	Test (Media)	Data source
Fish	LC_{50} (Oncorhynchus mykiss, 96h) = 2.8 mg/l	OECD 203 (FW)	ECHA
Crustacean	EC_{50} (Daphnia pulex, 48h) = 4.2 mg/l	No info	EPA Ecotox
Algae	EC_{50} (Pseudokirchneriella sub. 72h) = 0.35 mg/l	OECD 201 (FW)	ECHA

12.2. Persistence and degradability

Sodium azide is an inorganic compound. Methods for the determination of the biological degradation is not applicable to inorganic substances.

12.3. Bioaccumulative potential

Not relevant (Sodium azide is an inorganic compound)

12.4. Mobility in soil

No available or applicable data.

12.5. Results of PBT and vPvB assessment

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-code:

16 05 09 (mixture itself)

15 02 03 (Paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

Not dangerous goods according to ADR/RID/IMDG/IATA
14.1. UN number None
14.2. UN proper shipping name None
14.3. Transport hazard class(es) None
14.4. Packing group None
14.5. Environmental hazards None
14.6. Special precautions for user None
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
None
15.2. Chemical safety assessment
No CSR

SECTION 16: Other information

Hazard statements mentioned in section 3:
H300: Fatal if swallowed.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
EUH032: Contact with acids liberates very toxic gas.
Abbreviations:
CMR = Carcinogenicity, mutagenicity and reproductive toxicity.
CSR = Chemical Safety Report
DNEL = Derived No-Effect Level
EC50 = Effect Concentration 50 %
FW = Fresh Water
LC_{50} = Lethal Concentration 50 %
LD_{50} = Lethal Dose 50 %
PBT = Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
vPvB = very Persistent, very Bioaccumulative
Literature:
ECHA = = European Chemicals Agency
IUCLID = International Uniform ChemicaL Information Database.
RTECS = Register of Toxic Effects of Chemical Substances.
Training advice:
No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

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