

Material Safety Data Sheet

1. Name of substance/preparation and company**1.1. Commercial product: ExpressArt Amino Allyl Add-on Module**

Cat.-nos.: 2000-A30, 2000-A15

1.2. Company: AmpTec GmbH
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2. Composition/Information on constituents**2.1. constituents:**

Box AA-I Vial 4M Hydroxylamine (1x)
packet size 0.15 ml
Classification: Xn; N.
Contains: 20-30 %
(CAS-Nr.: 5470-11-1; R:22-36/38-43-48/22-50; S: 22-24-37-61)

Other vials
Classification: not necessary
Contains: No hazardous substances in reportable quantities.

Notes: Is to be classified according to EEC directive 67/548 and 88/379 as hazardous.
Classification: Harmful

3. Hazards identification

Warnings: R-Phrases: 22-36/38-43-48/22-50
Harmful if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms.
S-Phrases: 22-24-37-61
Do not breathe dust. Avoid contact with skin. Wear suitable gloves. Avoid release to the environment.

Notes: Substance hazardous to water and ground water

4. First aid measures

First aid:

Skin contact: flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye contact: flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Ingestion: wash out mouth with water, if person is conscious. Call a physician immediately.

5. Fire-fighting measures

Extinguishing media: carbon dioxide, dry chemical powder, or appropriate foam.

Thermal decomposition: Gases which are damaging to health do not form in dangerous quantities.

6. Accidental release measures

After spillage: Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site with water after material pickup is complete.

Absorbent media: no restriction

Special measures to limit damage are not necessary.

7. Handling and storage

7.1. handling When handling the product, usual precautions taken when handling chemicals should be observed.
Wear gloves and eye protection.

7.2. storage no restrictions for safety reasons;
Box AA-I: store at -20°C to preserve product quality

8. Exposure controls/personal

8.1. exposure controls no monitoring required
8.2. respiratory protection not required
8.3. hand protection protective gloves
8.4. eye protection protective glasses
8.5. body protection laboratory coat

Wash hands before breaks and at the end of work.

9. Physical and chemical properties

Physical state liquid
Miscible with water yes
Colour colourless
Odour odourless
pH 7,0 – 9,0
flash point not determined
density not determined

10. Stability and reactivity

Hazardous reactions: None known when used appropriately.
Hazardous decomposition products: Only small concentrations.

11. Toxicology

Vial 4M Hydroxylamine

Hydroxylamine

LD50 oral	141 mg/kg (rat), 408 mg/kg (mouse)
LD50 intraperitoneal	10 mg/kg (mouse)
LD50 skin	subcutaneous 125 mg/kg (mouse)

12. Ecological information

Hazards: Substance hazardous to water and ground water.

Hydroxylamine

LC50 Fish (*Leuciscus idus*) 1 – 10 mg/l

13. Disposal information

Waste should be burnt in a chemical incinerator equipped with an afterburner and scrubber.
Observe all local regulations.

14. Transport information

PIN	NA
TDG	NA
[DOT], [IMO]	Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (Hydroxylamine hydrochloride). Hazard Class: 8, 6.1 UN/NA: UN2922 Packing Group: III Information reported for product/size: 0.15 ml

15. Regulatory

[WHMIS Classification]	NA
[OSHA]	NA
[SARA]	311/312: Acute, Chronic
[TSCA]	NA

16. Other information

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. AmpTec is not held liable for any damage resulting from handling or from contact with the above products. MSDS has been prepared in accordance with EU Directive 67/548/EEC, 88/379/EEC, 91/155/EEC, 2001/58/EG and other EU Community legislations in force.