



Chemical and Agricultural Industry, Research S.A.

SAFETY DATA SHEET

AUXENOL(5-8-9) + trace elements

According to the Regulations 453/2010EC, 2015/830, 1907/2006 (REACH) & 1272/2008 (CLP)
Revision date: 4-12-2020

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product identifier

Designation	Complete NPK fertilizer for all purposes. EC fertilizer. Contains trace elements & micro-elements.
Trade name	AUXENOL (5-8-9) +trace elements

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

Product Use	Liquid fertilizer, foliar and soil applied, suitable also for hydroponics.
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1.3 Details of the supplier of the safety data sheet

Vioryl s.a. 28 th km Athens-Lamia National Road,19014 Afidnes, GREECE	Tel. +30 22950 45100
	Fax : +30 22950 45250
	Email agrochemical@vioryl.gr

1.4 Emergency telephone number: In case of poisoning call:
(Greece) Poisoning center: +30 210 7793777
(Greece) National emergency center: 166
(Cyprus) National emergency center: 1401

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture

The product is not classified as hazardous according to the Regulation (EC) 1272/2008(CLP) and subsequent amendments and supplements).

2.2 Label elements

Hazard labelling according to the Regulation (EC) 1272/2008 (CLP).

Precautionary statements :

P102 Keep out of reach of children.

P405 Store locked up.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: not applicable

3.2 Mixtures:

Solution of simple and compound fertilizers with micronutrients.

None of its ingredients is classified according to the Regulation (EC) 1272/2008.

4. **FIRST AID MEASURES**

4.1. **Description of first aid measures**

Skin Contact: Wash the affected area with soap and water.

Eye Contact: Flush/irrigate eye with copious amounts of water for at least 15 minutes occasionally lifting the upper and lower eyelids. Obtain medical attention if eyes irritation persists.

Ingestion: Do not induce vomiting. Wash mouth well. Give water or milk to drink.

Obtain medical attention if more than a small quantity has been ingested.

Inhalation: Remove to fresh air.

Thermal decomposition products: Inhalation of decomposition gases can cause irritation to the respiratory system. When heated urea decomposes and releases ammonia. In case of fire, toxic fumes which contain carbon monoxide and ammonia nitrogen can be released.

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

Following eye contact: Possible irritation, discomfort and tearing. Delayed effects are not expected.

Following skin contact: This product is not expected to cause skin irritation. Delayed effects are not expected.

Following ingestion: Ingestion may produce irritation of the mucous membranes as demonstrated by signs and symptoms of mouth membrane irritation, nausea and diarrhoea. Delayed effects are not expected.

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

Notes for the physician. There is no specific antidote. Treat symptomatically. Call a Poison Centre.

5. **FIRE FIGHTING MEASURES**

5.1. Suitable extinguishing Media: Water, Carbon dioxide, foam or dry chemical.

5.2. **Special hazards arising from the substance or mixture**

If product is involved in the fire

Prevent any contamination of the product by oils or other combustible materials. When strongly heated it can decompose giving off carbon, sulphur and nitrogen oxides.

Unusual Fire and Explosion Hazards: none

5.3. **Advice for firefighters**

Special Firefighting Procedures: Do not enter any confined fire space without proper protective equipment.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency and appropriate protective clothing. Clothing conforming to EN469 is sufficient with fires involving the product.

6. **ACCIDENTAL RELEASE MEASURES**

6.1. **Personal precautions, protective equipment and emergency procedures**

6.1.1. **For non-emergency personnel:**

Emergency procedures: Avoid all unnecessary exposure.

6.1.2. **For emergency responders:**

Wear suitable personal protective equipment.

6.2. **Environmental precautions**

Keep product away from ground and surface waters, drainage, sewage and any water source. Inform the appropriate authority in case of accidental contamination of watercourses.

Never mix the product with sawdust and various combustible or organic substances.

6.3. **Methods and material for containment and cleaning up**

Any spillage of the product should be cleaned up promptly, swept up and placed in a clean labeled open container for safe disposal. Contain spill immediately with attapulgite, bentonite or other absorbent clays.

Depending on the degree and nature of contamination, dispose of according to local regulations. Wash floor or other impervious surface with water.

6.4. Reference to other sections

See section 8 for protective equipment and section 13 for disposal instructions.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment. When using, do not eat, drink or smoke. Wash your hands thoroughly after using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container and out of the reach of children. Store at room temperatures.

Keep away from the source of heat or fire. Store at temperatures > 10°C.

7.3. Specific end use(s)

The product is a fertilizer. Advise the label information.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

No specific official limits.

8.2. Exposure controls

8.2.1 Appropriate engineering controls

Engineering controls should be used to eliminate worker and environmental exposure in the areas where the product is handled, transported, loaded, stored and used.

8.2.2. Personal protection equipment

Wear suitable gloves when handling the product.

Wear goggles or safety glasses.

After handling the product, wash hands and observe good hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:	liquid
Color:	dark green
Odor:	characteristic odor
pH:	4.5-5
Solubility in water:	Totally soluble in cold water
Specific Gravity/Density:	1.2 g./ml.
Explosive properties:	Not explosive
Oxidizing properties:	Not classified as oxidizing material

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions are expected. The product is stable for up to 2 years.

10.2. Chemical stability

The product is stable for 2 years when stored in original container under normal conditions of storage.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Avoid storage in unusual high temperatures and temperatures below 10°C.

10.5. Incompatible materials

Avoid strong oxidizers and alkaline materials.

10.6 Hazardous Decomposition Products:

When involved in fire, the components of this product decompose to produce toxic fumes of nitrogen, phosphorus, and sulfur oxide, carbon monoxide and dioxide.

When contacted with an alkaline material, may emit ammonia gas.

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

The product has not been tested. Ingredients of the product are not classified.

- (a) acute toxicity: Not classified
- (b) skin corrosion/irritation: Not classified.
- (c) serious eye damage/irritation : Not classified
- (d) respiratory or skin sensitisation: Not classified
- (e) germ cell mutagenicity: Not classified
- (f) carcinogenicity: Not classified
- (g) reproductive toxicity: Not classified
- (h) STOT-single exposure: Not classified
- (i) STOT-repeated exposure: Not classified
- (j) aspiration hazard: Not classified

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

The product has not been tested. Ingredients of the product are not classified as toxic to the environment.

12.2 Persistence and degradability

This fertilizer degrades in aquatic reservoirs and soil. Nitrogen follows the natural nitrification/denitrification cycle to give nitrogen or nitrogen oxides.

Phosphorus binds to soil organic matter and dissociates to ions in water, which cannot be further degraded.

Potassium is absorbed mainly by clay particles, or remains as K^+ in the soil.

12.3 Bioaccumulative potential

Components of this product are highly water soluble, dissociating.

Bioaccumulation is not relevant for such highly soluble and dissociating substances.

12.4 Mobility in soil

Components of this product are highly water soluble and dissociating.

NO_3^- is mobile and NH_4^+ is adsorbed by soil particles. Phosphorus moves in the ground shortly and then immobilizes. Potassium is absorbed mainly by the particles of clay, or remains as K^+ in soil and practically immobilized.

12.5 Results of PBT and vPvB assessment

PBT: No assessment is required for inorganic substances.

vPvB: No assessment is required for inorganic substances.

12.6 Other adverse effects:

No other effects to be mentioned.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal must be made according to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of higher amounts in accordance with Local Authority requirements, or as a fertilizer with spreading no more than 200kg/hectare on open fields.

Packaging materials:

Empty contaminated packaging and clean. They may be recycled after proper cleaning.

Recommended cleansing agents: Water.

14. TRANSPORT INFORMATION

Not classified according to the criteria of the following international transport agreements, codes, regulations and instructions.

14.1 Land transport ADR/RID

ADR/RID Class: 0

Danger code (Kemler):

UN number: Not regulated

Packaging group: --

14.2 Maritime transport IMDG

IMDG Class: 0

UN number: Not regulated

Packaging group: --

EMS number:

Segregation groups: --

14.3 Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 0

UN number: Not regulated

Packaging group: --

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

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not applicable

Seveso III: not applicable

Regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

This product is classified according to the above mentioned Regulation.

Regulation (EC) No 1907/2006 (REACH) Candidate substances for authorization: not applicable
Substances included in Annex XIV of REACH ("Authorization List") and sunset date: Not applicable

Regulation (EC) 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency.

This product contains only ingredients that are either pre-registered, registered, excluded from registration or considered to be registered in accordance with Regulation (EC) 1907/2006 (REACH).

16. OTHER INFORMATION**16.1 Indication of changes:**

The contents of the following section(s) alter and supersede those in the previous version: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 & 16. All parts updated in accordance to the Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006.

16.2 Full text of H - Statements

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16.3 Further information:

According to Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006, the information in this safety data sheet is based on the properties of the materials known to VIORYL S.A. at the time the data sheet was issued. The safety data sheet is intended to provide information for a healthy and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. It is the user's responsibility to determine conditions of safe use of the product, according to the information provided in this safety data sheet. This document is not intended for quality assurance purposes.

Date of last issue/ revision: 4-12-2020