

Trade name **ATS SOLUTION 12-0-0-26S****1. Identification of the substance / preparation and of the company / undertaking**

Product name: **ATS SOLUTION 12-0-0-26S**

Supplier :
Distributor : Agrium Europe S.A.
Avenue Louise 326
Bte 36
B – 1050
BRUXELLES – Belgique +32 (0)2 646 70 00
Fax : +32 (0)2 646 68 60

Use : Liquid fertilizer nitrogenized and sulphured for agriculture

Emergency contact : National Chemical Emergency Center
Abington
Oxfordshire – United Kingdom
Tel : +44.208.762.8322

2. Composition/information on ingredients

Chemical designation of preparation:
Aqueous mineral salts solution.

Dangerous ingredients present under classification thresholds :

Contains: Ammonium sulphites
No CAS : 10196-04-0 No EINECS : 233-484-9
Labelling : Xi – Irritant ; R 31-36/38
Content : 2,5%

Salts contained in the mixture mainly contain the following ions:

Sulphate : SO_4^- Ammonium : NH_4^+
Thiosulphate : S_2O_3^- Sulphite: SO_3^-

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3. Hazards identification

- European classification : This preparation is not governed by European directives 67/548/CE and 1999/45/CE, their adapted versions and their appendices.
This mixture is auto-classified by the manufacturer.
- Hazard(s) EC : Mixture with irritating properties.
- For human : A contact with eyes causes an irritation with feeling of burn.
Prolonged or repeated contact with the skin can cause irritation.
In the event of ingestion an irritation of the digestive tracts is possible.
In the event of fire, product decomposition can release toxic and corrosive gases.
- For the environment : No known data of effects on the environment.

4. First aid measures

- Inhalation : In case of inhalation of aerosols, get the victim into the fresh air. In case of breathing difficulties, seek medical advice .
- Skin contact : Remove contaminated clothing. Wash with plenty of soap and water.
Consult an eye specialist if irritation appears.
- Eye contact : Thoroughly rinse out with plenty of water with the eyelid held wide open.
Consult an eye specialist if irritation appears or persists
- Swallowing : If the person is conscious, rinse the mouth, make him drink several glasses of water, do not try to induce vomiting. Seek medical advice if the person is ill.

5. Fire-fighting measures

- Appropriate extinction methods: Sprayed water – Powder .
- Not advised : None.
- Particular risks in the event of fire : Non combustible By decomposition, generates fume, corrosive and toxic gases of SO(x) and NH₃.
- Special maintenance equipment: Wearing individual breathing apparatus is strongly recommended.
- Attached information : Cool with water containers under fire attacks.
Avoid pouring fire water down the drains.

6. Accidental release measures

- Individual precautions for spillage / leakage : If possible avoid contact with the skin and eyes.
Personnal precautions, see chapter 8.
- Cleaning up / absorption: Seal leak.
Take up with liquid-absorbent material and put it in a container. Forward for disposal or use as fertilizer.
Clean up affected area with plenty of water.
- Environmental protection precautions : Do not discharge the recovered product as is into the Environment, take steps to disperse it.

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7. Handling and storage

Handling: No special measures for handling in accordance with the instructions for use. Avoid all heating. Work in a ventilated area.

Storage: Store containers at room temperature (+ 10 to + 25°C), in a well-ventilated place.

8. Exposure controls/personal protection

Specific control parameters : The product does not contain any constituent with known exposure limits.

Technical measures : Ventilation of the work place.

Individual protection equipment:

- Respiratory protection: Cartridge mask in case of aerosols inhalation.
- Hand protection: Neoprene or rubber gloves
- Eye protection : Security eyeglasses

Wear suitable protective clothing in case of handling of large quantities

Work hygiene: Wash your hands after work. Do not drink, eat or smoke at the work site.

9. Physical and chemical properties

Form: Liquid

Color : Colourless to pale yellow

Odour : Light of ammonia

pH value : 7,0 - 8,5

Stage changes :

- Melting point/range 0 – 2°C
- Boiling point : superior to 100°C (decomposition of the mixture)

Flash point : Not applicable

Ignition temperature : Not applicable

Explosive limits : Lower undetermined
Upper : undetermined

Density (kg/dm³) : 1,32 at 1,35

Water solubility : Completely soluble

Log P(o/w): Not applicable

10. Stability and reactivity

Stability : The product is stable under normal storage conditions of use.

Conditions to avoid : None when applied and handled in accordance with conditions for use
Avoid strong rise in temperature (formation of ammonia).

Incompatible materials: Strong oxidants, strong acids, perchlorates, strong alkalines.

Hazardous decomposition products : In the event of fire, see chapter 5.
Possible formation of NH₃ by contact with highly alkaline products

Further data : Product reacting with copper, zinc or their alloys (bronze, brass, galvanized

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steel). These materials should not be used to handle the product.

11. Toxicological information

Acute toxicity : LD50 by the mouth (rat) 2890 mg/kg

Long term toxicity : None of the main components is recorded on the IARC carcinogenic products lists.

Toxicological information : In case of inhalation of Aerosol: Irritation of the respiratory tracts, cough, possibility of breathing difficulties.
In case of prolonged contact with skin: Possible irritation.
After eye contact: irritation.
After ingestion: Possible pain in the oesophagus and stomach may cause nausea, vomiting, dizziness, and diarrhea.

Other information: In case of ingestion in large quantity of ammonium nitrate, methaemoglobinemia is possible.

12. Ecological information

Formulation data

Mobility :
Sulphate, thiosulphate ions and magnesium are absorbed by soil.
Soluble sulphates not absorbed change to aqueous phase

Degradability :
The mixture is easily degradable by plants forming nitrogen.

Bioaccumulative potential :
Nothing known for ground and water organisms

Ecotoxicological effects:
The mixture is lightly toxic for water life.
Large discharge of thiosulphate into stagnant water can cause harmful effects for the aquatic environment and cause eutrophication..

Other information about ecology:
There is no risk of any ecological problems when appropriately handled and used.
Avoid to discharge large quantity of product into the environment.

13. Disposal considerations

Product disposal :
Using the product correctly should not generate waste.

Packaging Disposal :
Disposal by incinerating or upgrading the material by recycling after disposing of product residue by washing with water.

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14. Transport information

Shipping regulations :	ADR/RID/ADNR	IMDG/OMI	IATA/ICAO
PRODUCT NOT SUBJECT TO SHIPMENT REQUIREMENTS			

15. Regulatory information

Labelling in accordance with EC directives and adapted versions of them: This preparation is not concerned by European laws, it is labelled according to 99/45/EC Directive and rules in force.

This preparation is auto-classified by the manufacturer:

Symbol : Xi – Irritant ;

R-Phrases: R36 Irritating to eyes.

S-Phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Its main constituents are repeated in the European EINECS substances inventory.

Regulation according to EC fertilizer directives :

Regulation 2003/2003/EC and Directive 76/116/EC and its additional directives) : Obligatory information for packaging.
Directives 82/501/EC, 87/216/EC, 88/610/EC : Main risk, SEVESO

EC-No.:

16. Other information

Regulatory phrases mentioned into chapters 2 et 3 :

R31 Contact with acids liberates very toxic gas.
R36/38 Irritating to eyes and skin.

Origin :

This sheet was prepared on the basis of information provided and updated by the distributor.

This sheet rounds off the technical instructions but does not replace them. The information given above is based on the present state of our knowledge and experience relating to the product involved at the time of updating. It is provided in good faith.

The attention of users moreover is drawn to possible risks encountered if this product is used for purposes other than those for which it was designed.

Under no circumstances does this sheet release users from knowing and applying all regulations governing their businesses.