

SAFETY DATA SHEET – APRAL-N

According to (EC) n. 453/2010 - 20 May 2010

Printing date: 20 June 2021

Revision: 01.05.2017

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1. Product identifier:

Trade name: **APRAL-N**

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

Sector of Use: **Accelerator alkali free for concrete**

Use not recommended: **Do not use the product for purposes other than those indicated in the Technical Data Sheet**

1.3. Details of the supplier of the safety data sheet:

Bonomi srl

Via Mario Pagano, 63 20145 Milano Italy

In case of Emergency Mob: +393357826993 mail: cristiano.bonomi@bonominet.it

1.4. Emergency telephone number:

Centro Antiveleni Ospedale "Niguarda Cà Granda" – Milano - Tel.: +39.02.66101029

Centro Antiveleni del Policlinico Universitario "A. Gemelli" – Roma - Tel. +39.06.3054343

Istituto Superiore Sanità – Roma - Tel. +39.06.49901

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:



Xi - Irritant

Classification: Xi; R41

Risk: R41 - Risks of serious damage to eyes

Classification according to Reg. 1272/2008 CLP



Danger

Classification: Danger

Risk: H318 - Serious eye damage, category 1

2.2. Label elements:

Labelling according to Directive 67/548/EEC or Directive 1999/45/EC.

Hazard statements: R41 - Risks of serious damage to eyes

Precautionary statements: S25 - Avoid contact with eyes

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

S39 - Wear eye/face protection

S60 - This material and its container must be disposed of as hazardous waste

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S64 - If swallowed, rinse mouth with water (only if the person is conscious)

Labelling according to Reg. 1272/2008 CLP.

Hazard statements:

H318 - Serious eye damage, category 1

Precautionary statements:

P260-Do not breathe dust/fume/gas/mist/vapours/spray

P264- Wash ... thoroughly after handling

P280-Wear protective gloves/protective clothing/eye

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353+310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards:

No information on further hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

For the wording of the listed risk phrases refer to section 16.

Substance	Conc. (%)	Classification	Index	CAS	EINECS	REACH
Aluminium Sulphate	20 ÷ 30	Xi; R41	-	10043-01-3	233-135-0	ND
		GHS05 Eye Dam. 1 - H318				
Aluminium Nitrate	20 ÷ 30	C; R34	-	13473-90-0	236-751-8	ND
		GHS05 Causes severe skin burns and eye damage - H314				
Aluminium Fluoride	<5	Xn; R22 Xi; R36/37/38 GHS07 Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 - H302, H315, H319, H335	-	7784-18-1	232-051-1	ND

4. FIRST AID MEASURES

4.1. Description of first aid measures:

Inhalation: Ventilate the room. Immediately remove the patient from the contaminated environment in order to rest in a well ventilated area. If you feel sick get medical advice.

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- Skin contact:** Remove contaminated clothing. Wash immediately with running water and soap the areas of the body that have come in contact with the product, even if only suspected.
- Eye contact:** Wash immediately and thoroughly with running water keeping eyelids open for at least 10 minutes, then protect your eyes with dry sterile gauze. Seek medical advice immediately. Do not use eye drops or ointment of any kind prior to the visit or advice.
- Swallowing:** It's possible to give charcoal in water or liquid paraffin. Consult your doctor. Do not induce vomiting without medical advice.

4.2. Most important symptoms and effects, both acute and delayed:

No further relevant information available.

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

No further relevant information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing agents: Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing agents to be avoided: Waterjets. Use jets of water only to cool the containers surfaces exposed to fire.

5.2. Special hazards arising from the substance or mixture:

No further relevant information available.

5.3. Advice for firefighters:

Protective equipment: No special measures required
Use protection for the respiratory.
Safety helmet and full protective clothing.
The water spray can be used to protect the people involved in firefighting
It is suggested to use respirators, especially if the operations take place in a closed, poorly ventilated area and in any case, if it is used halogenated extinguishing agents (Halon 1211 fluobrene, Solkane 123, naphthalene, etc...)
Cool containers with waterjets.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions:

Limit leakages with earth or sand.

If the product has entered a watercourse, sewer system or has contaminated soil or vegetation, notify the authorities.

Dispose the residue in compliance with the regulations.

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6.3. Methods and material for containment and cleaning up:

Collect rapidly the product wearing a mask and protective clothing.

Recover the product for reuse, if possible, or for disposal. Possibly absorbing it with inert material.

Prevent it from entering the sewer system.

After collection, rinse with water the area and the materials involved.

6.4. Reference to other sections:

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

Avoid contact and inhalation of vapors. See also paragraph 8.

Do not eat or drink at work.

7.2. Conditions for safe storage, including any incompatibilities:

Keep in original container tightly closed. Do not store in open or unlabeled containers.

Keep containers upright and secure to avoid the possibility of falls or collisions.

Store in a cool place, away from any heat source and from the exposure to direct sunlight.

Use storage containers in stainless steel (V4A), in polyethylene, in polypropylene, in PVC, in fiberglass, in rubber acid resistant polyester, containers with such coatings.

7.3. Specific end use(s):

No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

TLV-TWA= 2mg/m³ as Al (ACGIH) –

8.2. Exposure controls:

Personal protective equipment:

Eye protection / face protection:

When handling pure product wear safety goggles (splash goggles) (EN 166).

Skin protection:

Hand Protection: Not needed for normal use.

Body protection:

Protective work clothing.

Respiratory Protection:

Not needed for normal use.

Thermal Hazards:

No hazards to be reported

Environmental exposure controls:

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Minimise release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance:	milky liquid
Odour:	Light
Olfactory threshold:	Not determined
pH:	2,0-3,0
Melting/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash Point:	Not applicable
Evaporation rate:	Not determined
Flammability (solid, gas):	Not applicable
Upper/Lower Flammable or Explosive:	Not applicable
Vapour pressure:	Not determined
Vapor density:	Not determined
Relative density:	1370 – 1410 Kg/m ³ (20°C)
Solubility:	Not determined
Idrosolubility:	miscible in any ratio
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	100- 200 mPa*s (25°C)
Explosive properties:	Not determined
Oxidising properties:	Not determined

9.2. Other information:

Other information.

10. STABILITY AND REACTIVITY

10.1. Reactivity:

Reacts with alkalis. Corrosive to metals.

10.2. Chemical stability:

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions:

No dangerous reactions known.

10.4. Conditions to avoid:

Not freezing

10.5. Incompatible materials:

Do not store together with alkalis.

10.6. Hazardous decomposition products:

No dangerous decomposition products known.

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11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity: Aluminium sulphate: LD50 Oral (rat) (mg/kg of bw) = 6207

Health effects: Not irritating to skin (rabbit, OECD 404) (similar product).

Irritating to eyes.

If swallowed, may cause irritation to mucous membranes.

Inhalation of aerosols or mists may cause respiratory irritation due to pH.

Sensitization: No data available on such a product

Carcinogenic Effects – mutagens: Unknown

Acute, subchronic, chronic: Unknown

12. Ecological information

12.1. Toxicity:

Acquatic toxicity: Aluminium sulphate: C(E)L50 (mg/l) = 38,2

12.2. Persistence and degradability:

No further relevant information available.

12.3. Bioaccumulative potential:

Not bioaccumulative.

12.4. Mobility in soil:

No further relevant information available.

12.5. Results of PBT and vPvB assessment:

There is no report on safety data sheet.

12.6. Other adverse effects:

No adverse effects reported

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Do not reuse empty containers. Dispose of in compliance with the regulations. Any remaining product should be eliminated according to regulations and using companies legally authorized for elimination of waste.

Recover if possible. Send to authorized disposal plants or for incineration under controlled conditions. Conform to local and national regulations.

14. TRANSPORT INFORMATION

14.1. ONU-Number:

Not within the scope of the EU Directive 96/86/EC and implemented by the Italian legislation concerning the transport of dangerous goods by road (A.D.R.).

14.2. UN proper shipping name:

None

14.3. Transport hazard class(es):

None

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14.4. Packaging group:

None

14.5. Environmental hazards:

No environmental hazards.

14.6. Special precautions for user:

No data available

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

No data available

15.2. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.1. Other information:

Description of the risk phrases set out in paragraph 3:

R22 = Harmful if swallowed

R36 = Irritating to eyes

R37 = Irritating to respiratory system

R38 = Irritating to skin

R41 = Risks of serious damages to eyes

Description of danger phrases set out in paragraph 3

H318 = Causes serious eye damage

H302 = Harmful if swallowed

H315 = Causes skin irritation

H319 = Causes serious eye irritation

H335 = may cause respiratory irritation

Classification made according to the data of all components of the mixture.

Regulatory references:

Directive 67/548 and s.m.i.

Directive 1999/45/CE and s.m.i.

Directive 2001/60/CE

Regulation 1907/2006 CE e s.m.i.

Regulation 1272/2008 CE e s.m.i.

Do not use the product for other purposes than those indicated in the Technical Data Sheet

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ADVICE FOR USERS

The information contained herein is based on knowledge available at the time of issuing according to regulations relating to safety, health, environmental protection and proper use of the product.

The user must be aware of the possible risks associated with use of the product other than the one for which the product is delivered.

The MSDS is not in any way excuse for the user from not knowing and applying all the regulations ruling its activities.

The totality of the regulations mentioned is intended to help the user to fulfill its obligations regarding the use of hazardous products.

This does not exonerate the user from ensuring that legal obligations other than those mentioned and regulating property and use of the product of which is solely responsible.