

Safety data sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **WINTER25**
Product name: **Winter Pav**

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use: **Superplasticising admixture – winter version**

1.3 Details of the supplier of the safety data sheet

Company name: **IDEAL WORK SRL**
Address: **Via Kennedy, 52**
Place and country: **31030 Vallà di Riese Pio X (TV)**
Italy
tel. **0423 /4535**
fax **0423 /748429**

e-mail address for a competent person,
responsible for the safety data sheet

sicurezza@idealwork.it

1.4 Emergency telephone number

For information in an emergency

Poison center:
National Poisons Information Service (Birmingham
Unit) City Hospital
Dudley Rd Birmingham
Telephone: +44 121 507 4123
Fax: +44 121 507 55 88
Emergency telephone: 844 892 0111

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)
Eye Dam./Irrit. 1

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Harmful if swallowed.
Risk of serious damage to eyes.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318 Causes serious eye damage.
H302 Harmful if swallowed.

Precautionary Statements (Prevention):

| | |
|------|---|
| P280 | Wear eye/face protection. |
| P270 | Do not eat, drink or smoke when using this product. |
| P264 | Wash with plenty of water and soap thoroughly after handling. |

Precautionary Statements (Response):

| | |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P330 | Rinse mouth. |

Precautionary Statements (Disposal):

| | |
|------|---|
| P501 | Dispose of contents/container to hazardous or special waste collection point. |
|------|---|

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: Calcium nitrate

According to Directive 67/548/EEC or 1999/45/EC

Directive 1999/45/EC ('Preparation Directive')

Hazard symbol(s)

Xn Harmful.



R-phrases(s)

| | |
|-----|---------------------------------|
| R22 | Harmful if swallowed. |
| R41 | Risk of serious damage to eyes. |

S-phrases(s)

| | |
|-----|---|
| S2 | Keep out of the reach of children. |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S39 | Wear eye/face protection. |
| S46 | If swallowed, seek medical advice immediately and show this container or label. |
| S51 | Use only in well-ventilated areas. |

Hazard determining component(s) for labelling: Calcium nitrate

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3. Composition/information on ingredients.

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Aqueous solution based on: polyacrylates

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

Calcium nitrate

Content (W/W): < 75 %
CAS Number: 10124-37-5
EC-Number: 233-332-1

Acute Tox. 4 (oral)
Eye Dam./Irrit. 1
H318, H302

sodium thiocyanate

Content (W/W): < 3 %
CAS Number: 540-72-7
EC-Number: 208-754-4

Acute Tox. 4 (Inhalation - vapour)
Acute Tox. 4 (oral)
Acute Tox. 4 (dermal)
Aquatic Chronic 3
H319, H312, H332, H302, H412, EUH032

methacrylic acid; 2-methylpropenoic acid

Content (W/W): < 1 %
CAS Number: 79-41-4
EC-Number: 201-204-4
REACH registration number: 01-2119463884-26
INDEX-Number: 607-088-00-5

Acute Tox. 4 (oral)
Acute Tox. 4 (Inhalation - mist)
Acute Tox. 3 (dermal)
Skin Corr./Irrit. 1A
Eye Dam./Irrit. 1
STOT SE 3 (irr. to respiratory syst.)
H311, H332, H302, H335, H314

Specific concentration limit:
STOT SE 3, irr. to respiratory syst.: >= 1 %

acrylic acid; prop-2-enoic acid

Content (W/W): < 0.3 %
CAS Number: 79-10-7
EC-Number: 201-177-9
REACH registration number: 01-2119452449-31

Flam. Liq. 3
Acute Tox. 4 (Inhalation - vapour)
Acute Tox. 4 (oral)
Acute Tox. 4 (dermal)
Skin Corr./Irrit. 1A
Eye Dam./Irrit. 1
Aquatic Acute 1
Aquatic Chronic 2
H226, H312, H332, H302, H314, H411, H400

Specific concentration limit:
STOT SE 3, irr. to respiratory syst.: >= 1 %

Hazardous ingredients

according to Directive 1999/45/EC

Calcium nitrate

Content (W/W): < 75 %
CAS Number: 10124-37-5
EC-Number: 233-332-1
Hazard symbol(s): Xn
R-phrase(s): 22, 41

sodium thiocyanate

Content (W/W): < 3 %
CAS Number: 540-72-7
EC-Number: 208-754-4
Hazard symbol(s): Xn
R-phrase(s): 20/21/22, 32, 36, 52/53

acrylic acid; prop-2-enoic acid

Content (W/W): < 0.3 %
CAS Number: 79-10-7
EC-Number: 201-177-9
REACH registration number: 01-2119452449-31
Hazard symbol(s): C, N
R-phrase(s): 10, 20/21/22, 35, 50

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

SECTION 4. First aid measures.

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5. Firefighting measures.

5.1. Extinguishing media

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

Carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters

Components with occupational exposure limits

79-10-7: acrylic acid; prop-2-enoic acid

79-41-4: methacrylic acid; 2-methylpropenoic acid

540-72-7: Sodium thiocyanate

10124-37-5: Calcium nitrate

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties

| | |
|--------------------------------|--|
| Form: | liquid |
| Colour: | product specific |
| Odour: | characteristic |
| Odour threshold: | |
| pH value: | No applicable information available. 7 - 9 (20 °C) |
| Melting temperature: | |
| Boiling point: | The product has not been tested. > 100 °C |
| Flash point: | |
| Evaporation rate: | Non-flammable. |
| Ignition temperature: | not determined |
| Vapour pressure: | not applicable |
| Density: | The product has not been tested. 1.35 - 1.45 g/cm ³ (25 °C) |
| Relative vapour density (air): | not determined |
| Solubility in water: | miscible (20 °C) |
| Thermal decomposition: | No decomposition if stored and handled as prescribed/indicated. |
| Viscosity, dynamic: | |
| Explosion hazard: | not determined not explosive |

9.2. Other information

Bulk density: not applicable

Other Information:
If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10. Stability and reactivity.

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents, strong reducing agents

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion.

Irritation

Assessment of irritating effects:

May cause severe damage to the eyes.

Respiratory/Skin sensitization

Assessment of sensitization:

Based on available Data, the classification criteria are not met.

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:

The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:

The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.

Other relevant toxicity information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12. Ecological information.

12.1. Toxicity

Assessment of aquatic toxicity:

Based on available Data, the classification criteria are not met. There is a high probability that the product is not acutely harmful to aquatic organisms.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Inherently biodegradable. The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.

The polymer component of the product is poorly biodegradable.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

No data available.

Discharge into the environment must be avoided.

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: No data available.

12.5. Results of PBT and vPvB assessment

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods

Observe national and local legal requirements.

Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14. Transport information.

Land transport

ADR

Not classified as a dangerous good under transport regulations

UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

RID

Not classified as a dangerous good under transport regulations

UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known
Transport in inland waterway vessel: Not evaluated

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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

| | |
|---------------------|---------------|
| Regulation: | Not evaluated |
| Shipment approved: | Not evaluated |
| Pollution name: | Not evaluated |
| Pollution category: | Not evaluated |
| Ship Type: | Not evaluated |

SECTION 15. Regulatory information.

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Chemical Safety Assessment not required

SECTION 16. Other information.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

| | |
|----------|---|
| Xn | Harmful. |
| C | Corrosive. |
| N | Dangerous for the environment. |
| 22 | Harmful if swallowed. |
| 41 | Risk of serious damage to eyes. |
| 20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| 32 | Contact with acids liberates very toxic gas. |
| 36 | Irritating to eyes. |
| 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

| | |
|-------------------|--|
| 10 | Flammable. |
| 35 | Causes severe burns. |
| 50 | Very toxic to aquatic organisms. |
| Acute Tox. | Acute toxicity |
| Eye Dam./Irrit. | Serious eye damage/eye irritation |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic |
| Skin Corr./Irrit. | Skin corrosion/irritation |
| STOT SE | Specific target organ toxicity — single exposure |
| Flam. Liq. | Flammable liquids |
| Aquatic Acute | Hazardous to the aquatic environment - acute |
| H318 | Causes serious eye damage. |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH032 | Contact with acids liberates very toxic gas. |
| H311 | Toxic in contact with skin. |
| H335 | May cause respiratory irritation. |
| H314 | Causes severe skin burns and eye damage. |
| H226 | Flammable liquid and vapour. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H400 | Very toxic to aquatic life. |

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.