

"STRICTLY PRIVATE AND CONFIDENTIAL"
NOT FOR PUBLIC CIRCULATION

SPECIFICATIONS FOR Ice Pack XL 3PLY

A) NON-WOVEN FABRIC

Manufacturer Process = Spunbonded Continuous

Weight (gram per mtr = Filamet 40

sq)

Tensile Strength (kg per 5 cm)

MD = 19.0

CD = 7.0

Tear Strength (kg) MD = 0.8

Elongation (%) MD = 60
CD = 60

B) PET-PE

Quality: PET 30/40 PE) (White)

Printing: 1- colour Flexo (20% ink coverage)

C) Micro-perforated PE

Quality: PE 20 (Blue)
Printing: none

D) ABSORBENT

1. COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|---------------|-------------------------------------|
| Chemical Name | Acrylic Acid, Polymers, Sodium Salt |
|---------------|-------------------------------------|

2. HAZARDS IDENTIFICATION

The Most Important Hazards And Effects

| | |
|-------------------------------|---|
| Physical And Chemical Hazards | In the presence of an ignition source : Dust can explosive mixture with air |
| | At high temperature: Thermal decomposition giving toxic products. |

3. FIRST-AID MEASURES

Information

| | |
|--------------|---|
| Inhalation | Remove to fresh air. Rinse out with gargles and seek medical attention |
| Skin Contact | Immediately flush skin with copious amount of water. |
| Eye Contact | Immediately flush eyes with copious amount of flowing water and seek medical attention. |
| Ingestion | Remove all SAP that can be taken out from the mouth and consult a doctor immediately. |

4. FIRE-FIGHTING MEASURES

Extinguishing Media

Water
spray Dry
Powder
Carbon dioxide (CO₂)
Foam

Specific Hazard with Regard
To Fire-Fighting Measures

In the presence of an ignition source : Dust
can form explosive mixture with air. (in
an enclosed space)
Temperature above 330°C : Thermal
decomposition giving toxic products :
Organic derivatives, Carbon oxides

Special equipment for the
Protection of firefighters

Wear protective clothing, safety goggles
and self-contained breathing apparatus.

5. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin and eyes.
Prohibit inhalation of dust.

Environment Precautions

Do not release into the environment.
Do not let the product enter into drains.

Methods For cleaning up
Recovery

Collect product by mechanical means.
Do not rinse with water (Makes the ground
Slippery).
Moist product : Absorb the remainder with an
Inert absorbent material.

Disposal

Destroy the product by incineration.

6. HANDLING AND STORAGE

Handling

Technical Measures

Storage and handling precautions applicable
to products:
DUST FORMING, forming EXPLOSIVE

Specific Handling Advice

mixtures with air (In the presence of an Ignition source:)
Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated.
(Do not permanently recycle dust-laden air)

Avoid dust formation.
Avoid accumulation of static charges.
Avoid spreading the product on the floor
(Product becomes slippery when dump)

Storage

Technical Measures

Keep container tightly closed.
Store protected from moisture.
Keep away from heat and sources of ignition.
Provide electrical earthing of equipment and electrical equipment usable in explosive atmosphere.

Safe Packaging Materials

Recommended

Paper bags lined with polyethylene. (or Polypropylene)

7. EXPOSURE CONTROL / PERSONAL PROTECTION

Protective Provisions

Ensure sufficient air exchange and / or exhaust in work areas.
(Do not permanently recycle dust-laden air)

Control Parameters

Exposure limits

Value recommended by EDANA :
VME=0.05mg/m³ (respirable dust) (<10um)

Personal Protective Equipment

Respiratory protection

Effective dust mask

Hand protection

Gloves

| | |
|---------------------------|---|
| Eye protection | Safety glasses / goggles |
| Skin and body protection | Non-skid boots |
| Specific hygiene measures | Avoid contact with skin and eyes Prohibit inhalation of dust |

8. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------|-----------------------|
| Appearance | White granular powder |
| Bulk Density | 0.60 to 0.90 g/ml |
| Decomposition Point | ca.330°C |
| Solubility in H ₂ O | Swells in water |
| Auto-ignition Temperature | Above 400°C |

9. PHYSICAL HAZARD (STABILITY AND REACTIVITY)

| | |
|---------------------|---|
| Conditions To Avoid | Store protected from moisture Keep away from heat and sources of ignition. |
|---------------------|---|

Hazardous Decomposition

| | |
|---------------------|---|
| Products | Temperature above 200°C : Thermal decomposition giving toxic Product : organic vapors, carbon monoxide |
| Further information | Polymer swells in presence of water |

10. TOXICOLOGICAL INFORMATION

| | | |
|----------------|----------------------------|----|
| Corrosiveness | None | 1) |
| Acute Toxicity | Oral rat LD50> 2,000 mg/kg | 1) |

| | | |
|---------------------------|-----------------------------|----|
| Skin Irritation | No irritant (Human, Rabbit) | 1) |
| Eye irritation | No irritant (Rabbit) | 1) |
| Vaginal Mucosa Irritation | No irritant (Dog) | 1) |
| Amex Mutagenicity Test | No mutagenic | 1) |

Skin contact sensitization No sensitiser (Rat)

1) Symptoms of Exposure

Dust may cause eye, nasal, or bronchial

1)

Irritation

| | | |
|--------------|------------------------------|----|
| Cytotoxicity | Non-cytotoxicity (L929 cell) | 1) |
|--------------|------------------------------|----|

11. ECOLOGICAL INFORMATION

| | |
|---------------------------|--|
| Persistence/Degradability | - |
| In water | Not readily biodegradable : 0% after 28d |
| Ecotoxicity | - |
| Aquatic Toxicity | - |
| Acute toxicity | - |

12. DISPOSAL CONSIDERATIONS

| | |
|---------------------|-------------------------------------|
| Disposal of Product | Destroy the product by incineration |
|---------------------|-------------------------------------|

13. TRANSPORT INFORMATION

| | |
|-----------|---------------|
| ADR / RID | Not regulated |
| IMDG | Not regulated |

IATA

Not regulated

14. REGULATORY INFORMATION

EEC Directive

-

Safety Data Sheets

D.91/155/EEC amended by D.93/112/EEC :
Dangerous substance and preparations

EC Classification/Labelling

-

Dangerous preparations

D.88/379/EEC amended by D.93/18/EEC
(3rd ATP)
Not classified as dangerous

Inventories

TSCA(USA) : Conforms

EINECS (EC) : Conforms

ENCS (Japan) : Conforms

15. OTHER INFORMATION

Recommended Use

Super absorbent polymers
Aqueous fluid absorbent

Reference 1)

Data of contracted laboratory

Regulatory information with regard to this
substance in your country or in your region
Should be examined by your own
responsibility.

The information relates to this specific material. It may not be valid for this material, if used in combination with any other materials or in any process.

It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.