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Emergency telephone

European Emergency N°:	112
Emergency telephone at the company:	+40/250/738141
Available outside office hours:	24h/day/365days

2. HAZARD IDENTIFICATION

Classification of the substance

Classification according to Regulation (EC) 1272/2008

Polyvinyl chloride (PVC) is not classified according to Regulation (EC) 1272/2008

2.1.2 Classification according to Directive 67/548/EEC

Polyvinyl chloride (PVC) is not classified according to Directive 67/548/EEC

Label elements

Labeling according to Regulation (EC) 1272/2008

Signal word: No signal word

No label according to Regulation (EC) 1272/2008.

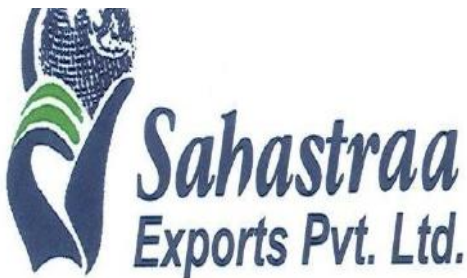
Labeling according to Directive 67/548/EEC No

label according to D 67/548/EEC.

2.3 Other hazard

Health effects: Not normally considered a health hazard. The content of residual vinyl chloride monomer is max. 0,0001 %, so the polyvinyl chloride presents no health effects.

Environmental effects: No critical hazard to the environment in the ordinary sense of valid regulations. Polyvinyl chloride is not classified as dangerous for environmental.



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Emergency overview: Polyvinyl chloride is a white odourless powder. When heating above decomposition temperature it will form toxic gases: carbon monoxide, carbon dioxide and gaseous hydrochloric acid. PVC handling procedures should be chosen so that it minimizes the formation of dust in the work area.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	PBT/ vPvB	CAS no	Classification according to Reg (EC) No.1272/2008)	Classification according to D67/548/EC	Concentration, % (w/w)
Polyvinyl chloride	No/No	9002-86-2	no	no	100

Impurities

No impurities relevant for classification and labeling.

The content of residual vinyl chloride monomer is max. 0, 0001 %, so this impuritie is not relevant for classification and labeling.

4. FIRST AID MEASURE

4.1 Description of first aid measures

General Advice: If exposed or if you feel unwell: Call a Poison Center or doctor/physician. Show this safety data sheet to the doctor in attendance.

If Inhaled: Remove to fresh air. Get medical attention if necessary.

In case of skin contact: Flush with plenty of water and soap immediately.

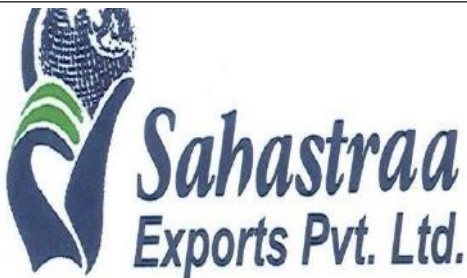
In case of eye contact: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower eyelids, until no evidence of chemical remains at least 15-20 minutes. Do not rub the eyes. See physician if residual foreign body is suspected or irritation persists.

If ingested: No effects expected because the material is practically inert. Call a physicien if necessary.

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

By inhalation: Dust inhalation may cause irritation of nose, throat and lungs.

By eye contact: PVC dust causes irritations and abrasions on eye.



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By skin contact: PVC dust causes irritations and abrasions on skin.

By ingestion: No effects expected because the material is practically inert

4.3 Indication of immediate medical attention and special treatment needed

No specific antidote. Treat symptomatically and supportively.

5. FIRE - FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Dry powder, carbon dioxide, water.

Unsuitable extinguishing media: None

Special hazards arising from the substance or mixture

Exposure hazards: This product is nonflammable and nonexplosive under normal conditions of use. When forced to burn, the major gaseous products of combustion of PVC resin are carbon monoxide, carbon dioxide and gaseous hydrochloric acid.

Hazardous combustion products: When heating above decomposition temperature it will form toxic gases: carbon monoxide, carbon dioxide and gaseous hydrochloric acid.

Advice for firefighters

Special precautions for fire-fighters: Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Protection of fire-fighters: Wear full protective equipment and self-contained breathing apparatus.

Remarks: Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

6.1 . Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Keep unnecessary and unprotected personnel away from entering. Avoid contact with skin, eyes, and clothing – wear suitable protective equipment (see section 8).

Do not touch or walk through spilt material. Shut off all ignition sources.



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For emergency responders: Persons performing clean-up work should wear adequate personal protective equipment and a respirator filter for organic vapour and harmful dust. Remove all sources of ignition from the affected area.

Environmental precautions

Environmental precautions: Prevent from contamination the ground and surface water by isolating the work area. The risks for environmental spreading of this material are low because of the absence of water solubility or soil mobility of PVC, the material is practically inert .

Methods and materials for containment and cleaning up

Methods of cleaning up: Contain spillages with dike to prevent dusting, spreading on soil or entry into the surface water, then transfer into other closed containers. Use appropriate way to prevent dusting-vacuum cleaner, shovel. Recover containers if possible and dispose according to applicable local environmental regulations. In case of necessary flushing contaminated area with water, the resulted waste waters will be treated according to applicable local environmental regulations.

Special precautions: None

6.4 Reference to other sections

Additional advice: Refer to section 8, 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: PVC is not a hazardous material in most of industrial operations. PVC handling procedures should be chosen so that it minimizes the formation of dust in the work area (pneumatic transport, dust filter). Not eat, drink or smoke during handling.

Advice on general occupational hygiene: Avoid dust generation. General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.



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Conditions for safe storage, including any incompatibilities

Storage: Stored in a cool, dry area away from heat and source of ignition. PVC, as all powdered materials, presents an electrostatic accumulation hazard, so proper grounding procedures must be used.

Incompatible: Keep away from Bromine and fluorine which attack PVC at room temperature. Avoid contact with ketones and tetrahydrofurane which dissolve the powder of PVC.

Specific end use(s)

Please check the identified uses from Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	OSHA PEL (permissible exposure limit)	15mg/m ³ (total dust).
	ACGIH TVL (threshold limit value)	10mg/m ³ (inhalable particulate)

Engineering control: In work area will provide a microclimate so that the dust concentration in the air to be below the exposure limits.

Personal protective equipment

Respiratory protection: Use an air purifying (A/P) filter respirator for organic vapour and harmful dust in order to avoid inhalation of dust.

Hand protection: Use impervious protective gloves (leather, canvas).

Eye / Face protection: Wear safety chemical goggles with side shields. In the workplace will avoid using the contact lenses.

Skin protection: Minimize skin contact using protective canvas clothing. Clean contaminated clothing before reuse.

Specific hygienic measures: Do not eat or drink while using the product. Maintain shower, eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

General informations

Appearance:	white powder
Odor	odorless



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Important health, safety and environmental informations

pH	N/A
Boiling point:	N/A
Flash point:	391 ⁰ C
Flammability	Non flammable
Explosive properties	Explosive in open flamme
Oxidizing properties	No oxidizing properties
Specific gravity (water=1):	1.4
Bulk density	300-650 kg/m ³
Solubility in water:	N/A
Vapor pressure:	N/A

Other informations

Melting point/decomposition:	>120 °C
Autoignition temperature	454 °C

10. STABILITY AND REACTIVITY

Reactivity: This material is inert.

Chemical stability: Stable. Polyvinyl chloride is a stable polymer material and will not further polymerize. This product will not depolymerize to form vinyl chloride.

Possibility of hazardous reactions: No hazardous reactions.

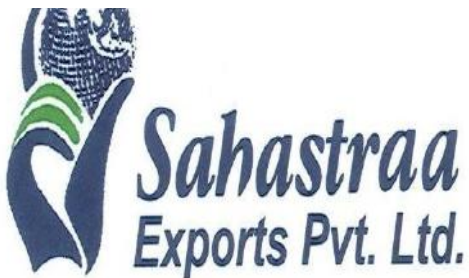
Conditions to avoid: Extreme heat, flame, source of ignition.

Incompatible materials: Bromine and fluorine attack PVC at room temperature. Avoid contact with ketones and tetrahydrofuran which dissolve the powder of PVC.

11. TOXICOLOGICAL INFORMATION

Animal toxicity data:

LD ₅₀ Oral, rat (literature data)	210 mg/kg
LD ₅₀ Intraperitoneal, rat (literature data)	75 mg/kg



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Acute toxicity

- **Inhalation:** Dust inhalation may cause irritation of nose, throat and lungs.
- **Eye/Skin contact:** PVC dust causes irritations and abrasions on eye or skin.
- **Ingestion:** No hazard known to borden.

Chronic effects: Chronic inhalation of dusts can cause pulmonary damage, blood effects and abnormal liver function. Overexposures can cause allergic dermatitis.

Workers with preexisting diseases of eyes, skin or respiratory system may increase susceptibility to the toxicity of excessive exposure. Other symptoms, if exist, would be associated with unreacted vinyl chloride. Refer to special medical attention all workers having central nervous system, respiratory system, liver or kidney disorders.

CMR effects (Carcinogenity, Mutagenicity, toxicity for Reproduction): It has no CMR effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product is biological inert for aquatic life.

Mobility: The product may enter the environment from industrial waste treatment plant discharges or spills. Polyvinyl chloride is expected to be very stable in the environment.

Persistence and degradability: Despite the very slow biodegradability rate the product should not present an environmental hazard in surface water / soil. PVC may degrade slowly under anaerobic conditions.

Bioaccumulative potential: This material will persist in the environment, but will not bioaccumulate.

Other adverse effects: Insufficient data are available to evaluate or predict the short or long term effects to aquatic life.

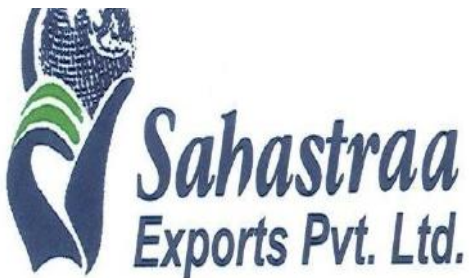
13. DISPOSAL CONSIDERATIONS

This section contains generic advice and guidance.

Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Residual material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and



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any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

13.1.2. Packaging

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

14. TRANSPORT INFORMATION

ADR: PVC is not classified under ADR regulations.

RID: PVC is not classified under RID regulations.

Maritime transport IMDG: PVC is not classified under IMDG regulations.

Air transport ICAO/IATA: PVC is not classified under IATA regulations.

15. REGULATORY INFORMATION

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern (CMR): PVC is not listed on the annex XIV.

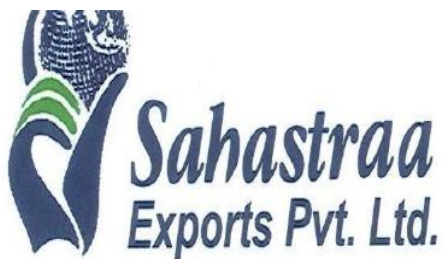
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

PVC is not listed on the annex.

Other EU regulations: Is not a SEVESO substance, not ozone depleting substance.

15.2 Chemical safety Assessment

An exposure assessment is not required as PVC is a polymer and is not classified and labeled as hazardous material according to Directive 67/548/ECC and Regulation (EC) No. 1272/2008.



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Explanations for possible abbreviations mentioned in above section

PBT: Persistent, bioaccumulative and toxic.

vPvB: Very persistent and very bioaccumulative.

ADR: European **Agreement** concerning the International Carriage of **Dangerous** Goods by **Road**.

RID: **International** Carriage of **Dangerous** Goods by **Road**.

IMDG: International Maritime Dangerous Goods Code.

ICAO/IATA: International Civil Aviation Organization/ International Air Transport.

END OF MSDS
