

OTTO CHEMIE PVT LTD

An ISO 9001 : 2015 & GMP Certified Company
101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841
Email : info@ottokemi.com Web : www.ottokemi.com

Revision Date: 16-09-2026

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Poly(vinylidene fluoride-co-trifluoroethylene)
Product Code: P 8814

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use: Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification

OTTO CHEMIE PVT LTD

101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208.

Email info@ottokemi.com

1.4. Emergency telephone number

Phone no. : + 91 22 2207 0099 (10:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008):

Additional information:

No label necessary for this product.

2.3. Other hazards Potential health effects:

Acute exposure: Contact with the product, when handled at high temperatures, can cause serious burns.

Inhalation: Inhalation of vapours due to thermal decomposition:

Thermal decomposition over 350°C can provoke pseudo-flu condition with fever and muscular pains (polymer fever)

At high temperature, products of thermal decomposition can be irritating to respiratory system

Possible irritation of respiratory system (by dust inhalation).

Toxic effects cannot be excluded

Skin contact: At high temperature, products of thermal decomposition can be irritating to skin

Eye contact: Risk of eye irritation. (Physical effect of dust)

At high temperature, products of thermal decomposition can be irritating to eyes

Environmental Effects:

Inert polymer not biodegradable on the basis of its structure

Physical and chemical hazards:

In the presence of an ignition source: Dust may form explosive mixture in air.

Thermal decomposition giving toxic and corrosive products.

Decomposition products: See section 10

Other: Results of PBT and vPvB assessment:

Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : PolyVinylidene fluoride and trifluoro ethylene

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures:

General advice:

No hazards which require special first aid measures.

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Inhalation:

Inhalation of vapours due to thermal decomposition:

Move to fresh air. Put under medical surveillance, even if without initial problems

Dust inhalation: In case of persistent problems: Consult a doctor quickly.

Skin contact:

Wash off with soap and water. On contact with hot product:

Cool skin rapidly with cold water after contact with molten material.

In case of adhesion, do not try to remove the product.

Treat the affected areas as thermal burns. Consult a physician.

Eye contact:

On contact with hot product:

Wash off immediately with plenty of water.

Consult an ophthalmologist immediately.

Dusts: Wash well-open eyes immediately, abundantly and thoroughly with water.

If eye irritation persists, consult a specialist.

Ingestion:

In case of problems: Consult a doctor.

Protection of first-aiders:

In case of insufficient ventilation, wear suitable respiratory equipment.

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

Hazards:

If thermal decomposition of this product occurs releasing HF, additional first aid measures are required.

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray, Carbon dioxide (CO₂), Foam, Dry chemical

Unsuitable extinguishing media:

High volume water jet, Fine dust dispersed in air may ignite, risk of dust explosion

5.2. Special hazards arising from the substance or mixture:

Temperature exceeding 350°C.; Thermal decomposition giving toxic and corrosive products, hydrofluoric acid

In the presence of an ignition source: Dust may form explosive mixture in air.

5.3. Advice for firefighters:

Specific methods: Ensure a system for the rapid emptying of containers.

In case of fire, remove exposed containers.

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Effective dust mask Do not breathe vapours/dust.

Do not smoke. Remove all sources of ignition.

6.2. Environmental precautions:

Do not release into the environment.

Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up:

Recovery:

Recover the product. Sweep up to prevent slipping hazard. No sparking tools should be used.

Elimination:

Recycle if possible.

6.4. Reference to other sections:

None.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Technical measures/Precautions: Storage and handling precautions applicable to products:

Solid. Dust forming. In the presence of an ignition source: Dust may form explosive mixture in air.

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Provide showers, eye-baths. Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres.

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Safe handling advice:

Avoid dust formation. Avoid accumulation of static charges during transfers in metallic systems.

Prohibit all sources of sparks and ignition - Do not smoke.

Keep well away from naked flames. At all stages of the operation, do not exceed the temperature at which decomposition into toxic and corrosive products will occur.

Hygiene measures:

Do not breathe dust. Product handled when hot:

Avoid contact with skin and eyes and inhalation of vapours.

When using do not eat, drink or smoke.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Remove all sources of ignition.

Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres.

Incompatible products:

Titanium dioxide Silica (Glass fibre) strong bases Boron oxide

Packaging material:

Recommended: Cardboard lined with polyethylene liner

7.3. Specific end use(s): None.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure Limit Values (dust)

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	03 2014	TWA	-	-	Respirable particles.
ACGIH (US)	03 2014	TWA	-	-	Inhalable particles.

Exposure Limit Values: Not relevant

Products of decomposition:

Hydrogen fluoride

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EU ELV	12 2009	TWA	1,8	1,5	Indicative value
EU ELV	12 2009	STEL	3	2,5	Indicative value
ACGIH (US)	02 2012	SKIN	-	-	Can be absorbed through the skin.
ACGIH (US)	02 2012	Ceiling	2	-	as Fluorine (F)
ACGIH (US)	02 2012	TWA	0,5	-	as Fluorine (F)

Derived No Effect Level (DNEL):

According to REACH regulation, article 2(9), the substance does not require registration.

Predicted No Effect Concentration:

According to REACH regulation, article 2(9), the substance does not require registration.

8.2. Exposure controls:

General protective measures:

Ensure ventilation of work areas and extraction of dust or vapours likely to be given off during conversion operations (product handled when hot).

Personal protective equipment:

Respiratory protection:

Effective dust mask Recommended Filter type: P2

In the case of hazardous fumes, wear self contained breathing apparatus.

Hand protection: Gloves

Eye/face protection: Safety glasses

Skin and body protection: Protective suit

Environmental exposure controls: See chapter 6

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance (Form)	Granules
Colour:	white, Slightly yellow
Odour:	None.
Odour Threshold:	Not relevant
Melting point/range:	> 140 °C

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Boiling point/boiling range:	Not applicable
Flammability:	No data available.
Lower explosion limit:	No data available.
Upper explosion limit:	No data available.
Flash point:	Not applicable
Auto-ignition temperature:	Not relevant
Decomposition temperature:	> 315 °C
pH:	Not applicable
Viscosity, kinematic:	Not applicable
Viscosity, dynamic:	Not applicable
Water solubility:	insoluble
Solubility in other solvents:	Polar solvents
Partition coefficient: n-octanol/water:	No data available.
Vapour pressure:	Not applicable
Density:	1,77 - 1,82 g/cm3
Relative density (Water=1):	0,4 - 0,6
Vapour density:	Not applicable
Relative vapour density:	Not applicable Reference substance: Air=1
Particle size:	> 10 µm
9.2. Other information:	
Explosive properties:	
Explosivity :	In the presence of an ignition source: Dust may form explosive mixture in air.
Oxidizing properties:	
Not relevant (due to its chemical structure)	

SECTION 10: Stability and reactivity

10.1. Reactivity:

No data available.

10.2. Chemical stability:

The product is stable at normal handling and storage temperatures.

10.3. Possibility of hazardous reactions:

In the presence of an ignition source: Dust may form explosive mixture in air.

10.4. Conditions to avoid:

Keep away from heat and sources of ignition.

10.5. Incompatible materials to avoid:

Titanium dioxide, Silica, strong bases, Boron oxide, At high temperature : risk of violent reaction (decomposition)

10.6. Hazardous decomposition products:

Thermal decomposition:

Decomposition temperature: > 315 °C

Thermal decomposition giving toxic and corrosive products:, hydrofluoric acid

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg

Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

Ecotoxicology Assessment:

All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

12.1. Toxicity :

Fish: No data available.

Aquatic invertebrates: No data available.

Aquatic plants: No data available.

Microorganisms: No data available.

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12.2. Persistence and degradability

Biodegradation (In water)

Inert polymer Not biodegradable on the basis of its structure

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil - Distribution among environmental compartments

Vapor pressure: Not applicable

12.5. Results of PBT and vPvB assessment:

Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

12.6. Endocrine disrupting properties:

None known.

12.7. Other adverse effects:

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

Disposal of product:

If recycling is not practicable, dispose of in compliance with local regulations.

Provide a system to neutralize the fumes.

Disposal of packaging:

Recycle if possible.

SECTION 14: Transport information

14.1 UN number

ADR/RID: -

14.2 UN proper shipping name

ADR/RID : Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

14.4 Packaging group

ADR/RID: -

14.5 Environmental hazards

ADR/RID: no

14.6 Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

IMDG: -

IATA: -

IMDG: -

IATA: -

IMDG: -

IATA: -

IMDG Marine pollutant: no

IATA: no

SECTION 15: Regulatory information

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

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

15.2. Chemical safety assessment:

According to REACH regulation, article 2(9), the substance does not require registration.

INVENTORIES:

For the inventory details, see Appendix.

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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