

MATERIAL SAFETY DATA SHEET

Rev. No.: PG/MSDS/2025-2026

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CARBOFLAMEX

- 1 **Manufacturer** : PRANAGRAF ADVANCED MATERIALS PRIVATE LIMITED
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- 2 **Identification of the Product**
Trade Name : CARBOFLAMEX
Manufacturer : PRANAGRAF ADVANCED MATERIALS PRIVATE LIMITED

CAS No : 12777-87-6
EC Number : 235-819-4
REACH Registration Number : 01-2119514421-54-0021
Chemical Formula : C_xH₂O₄S
Intended Use : Flame retardant additive

Chemical name	CAS No	Concentration
Sulphuric acid, compound with graphite	12777-87-6	> 95%
Crystalline silica	14808-60-7	< 0.1%
Amorphous silica	7631-86-9	< 1.5%
Inorganic impurities like Al ₂ O ₃	90669-62-8	< 1%
Inorganic impurities like Fe ₂ O ₃	76774-74-8	< 1%

- 3 **Information on Ingredients**
Appearance & Odour : Black shining, Odorless
Specific Gravity : 0.30 to 0.65 gm/cc.

pH : 6-8
Rolling Point : NA
Boiling Point : NA
Flammable Limits : NA
Vapour Pressure : NA
Percent Volatile : NA
Hazardous Component(s) : None
Chemical type : Mineral
Impurities contributing to dangerous : Crystalline silica

- 4 **Hazards Identification**
 - Main Hazards : Inhalation of dust
 - Risk Phrases : Irritating to eyes and respiratory system
 - Adverse human health effects : This product is considered to be relatively harmless to humans
 - Physical and chemical hazards : None
 - Specific hazards : Pre-existing asthma, bronchitis, emphysema and other lung and respiratory ailments may be aggravated by overexposure to dust.

- 5 **First Aid Measures**
 - Emergency Medical Treatment : Generally, not required
 - First Aid
 - Inhalation : Remove to fresh air
 - Skin Contact : No special requirements, non-irritant
 - Eye Contact : Flush with water
 - Ingestion : Give a glass of plain water and induce vomiting
 - Symptoms and effects : No typical symptoms or effects are known
 - Note to Physician : Consult Ophthalmologist

- 6 **Fire-fighting Measures**
 - General advice : Not flammable. No special firefighting procedures are required for this product.
 - Extinguishing media
 - Suitable : All extinguishing media can be used.
 - Protection for firemen : Use appropriate respiratory protection if local ventilation is inadequate.

- 7 **Accidental release measures**
 - Personal precautions : See Heading No.8
 - Environmental precautions : No special requirements
 - After spillage / leakage
 - on soil : Clean up mechanically
 - on water : No special requirements
 - Disposal : Dispose in a safe manner in accordance with local/national regulations.

- 8 **Handling and storage**
 - Precautions in handling and storage : No Special requirements
 - Handling : Handle in accordance with good industrial hygiene and safety procedures.
 - Technical measures : No Special requirements
 - Advice for safe handling : Avoid formation of dust
 - Incompatible products storage : None
 - Suitable storage circumstances : Dry Warehouse
 - Storage - away from : Away from Electrical Equipment
 - Recommended packing materials : No Special requirements

- 9 **Exposure controls / personal protection**
 - Technical measures : Ventilate area

Personal protection	:	Handle in accordance with good industrial hygiene and safety procedures.
Respiratory protection	:	Use dust mask
Industrial hygiene	:	Do not eat, drink or smoke in the working place. Keep the working area as clean and tidy as possible. Wash hand and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.
10 Physical and chemical properties		
Physical state	:	Solid
Form	:	Flake
Colour	:	Black
Odour	:	Odourless
pH value	:	6-8
Melting point (° C)	:	3600° C (Sublimes)
Boiling point (° C)	:	Not established
Decomposition temperature (° C)	:	Not established
Flashpoint (° C)	:	Not applicable
Density	:	0.30 to 0.65 gm/cc
Vapour pressure (hPa)	:	Not applicable
Viscosity at 20° C (mPa.s)	:	Not applicable
Solubility in water (% weight)	:	None
Specific gravity	:	0.30 to 0.65 gm/cc
Auto-ignition temperature (° C)	:	Not established
Explosive properties	:	Not applicable
Log Octanol/ water at 20° C	:	Not applicable
Evaporation rate	:	Zero
Oxidising properties	:	None
Specific conductivity (S/m)	:	Not established
11 Stability and reactivity		
Hazardous reactions	:	None
Stability	:	Stable
Material to avoid	:	Strong acids, bases
Hazardous decomposition products	:	None
12 Toxicological information		
Oral LD50 of graphite	:	> 5 g/kg in Rat
Toxicity information	:	Health injuries are not known or expected under normal use.
Local effects		
- Inhalation	:	Pre-existing asthma, bronchitis, emphysema and other lung and respiratory ailments may be aggravated by overexposure to dust
- Carcinogenicity	:	Crystalline silica has been classified by IARC, NTI, ACGI, as a known carcinogen & suspected human carcinogen
13 Ecological information		
Eco toxicity	:	There is no indication that this product presents any danger to the environment.

- Toxicity information : No significant hazards.
Log Poctanol / water at 20° C : Not applicable
- 14 Disposal considerations**
Residues : Dispose in a safe manner in accordance with local/national regulations for land filling.
Contaminated packaging : Dispose in a safe manner in accordance with local/national regulations for land filling.
- 15 Transport information**
TDG : Not regulated as dangerous goods
ADR/RID/IATA : Not regulated
Pictorial diagrams : NA
- 16 Regulatory information**
Trade name : CARBOFLAMEX
EEC Labelling : Not classified
Symbol(s) : None
- Contains : Not applicable
RPhrase(s) : R36/37 - Irritating to eyes and respiratory system
SPhrase(s) : S26
Basis of classification : Not applicable
Annex I nbr : Not classified

International Inventories

Country	Inventory Name	On Inventory (Yes/No)
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes

- 17 Other information**
NPFA Ratings : Health - 1
Flammability - 0
Reactivity - 0
Number of revision of MSDS : See right hand top corner
Date of last revision MSDS : See right hand top corner
Print date MSDS : See revision date
Name editor : **PRANAGRAF ADVANCED MATERIAL PVT.LTD.**

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