

SAFETY DATA SHEET

FR4-45 BASE SANDY BEIGE

Section 1. Identification

FR4-45 BASE SANDY BEIGE

: Product identifier

64000100B

: SDS code

Recommended use of the chemical and restrictions on use

Identified uses

Paint. Professional use Industrial use

All other uses

Filler for interior use

: Product use

Supplier's details

MAPAERO SAS
10, Avenue de la Rijole CS30098
09103 PAMIERS Cedex
France

PSRA_PAMIERS@akzonobel.com

: Importer

: e-mail address of person responsible for this SDS

+33 (0)5 34 01 34 01

+33 (0)5 61 60 23 30

: Emergency telephone number

Section 2. Hazard identification

SKIN SENSITIZATION - Category 1

AQUATIC HAZARD (ACUTE) - Category 3

AQUATIC HAZARD (LONG-TERM) - Category 3

: Classification of the substance or mixture

GHS label elements

: Hazard pictograms



Warning

: Signal word

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

: Hazard statements

Precautionary statements

Wear protective gloves. Avoid release to the environment. Avoid breathing vapor.

: Prevention

Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

: Response

Not applicable.

: Storage

Dispose of contents and container in accordance with all local, regional, national and international regulations.

: Disposal

Date of issue/Date of revision : 9-12-2022

Version : 1.02

Date of previous issue : 6-10-2022

1/10

Section 2. Hazard identification

None known.

: Other hazards which do not result in classification

Section 3. Composition/information on ingredients

Mixture : Substance/mixture

Not available. : Other means of identification

CAS number	%	Ingredient name
5965-84-9	<0.025	C(M)IT/MIT(3:1)

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. : **Eye contact**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. : **Inhalation**

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. : **Skin contact**

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. : **Ingestion**

Most important symptoms/effects, acute and delayed

Potential acute health effects

No known significant effects or critical hazards. : **Eye contact**No known significant effects or critical hazards. : **Inhalation**May cause an allergic skin reaction. : **Skin contact**No known significant effects or critical hazards. : **Ingestion**

Over-exposure signs/symptoms

No specific data. : **Eye contact**No specific data. : **Inhalation**

Section 4. First aid measures

Adverse symptoms may include the following:

irritation

redness

No specific data.

: **Skin contact**

: **Ingestion**

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

No specific treatment.

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

: **Notes to physician**

: **Specific treatments**

: **Protection of first-aiders**

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

None known.

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

halogenated compounds

metal oxide/oxides

: **Suitable extinguishing media**

: **Unsuitable extinguishing media**

: **Specific hazards arising from the chemical**

: **Hazardous thermal decomposition products**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

: **Special protective actions for fire-fighters**

: **Special protective equipment for fire-fighters**

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

: **For non-emergency personnel**

: **For emergency responders**

: **Environmental precautions**

Section 6. Accidental release measures

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. : **Small spill**

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. : **Large spill**

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. : **Protective measures**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. : **Advice on general occupational hygiene**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. : **Conditions for safe storage, including any incompatibilities**

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. : **Appropriate engineering controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. : **Environmental exposure controls**

Individual protection measures

Section 8. Exposure controls/personal protection

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

: **Hygiene measures**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

: **Eye/face protection**

Skin protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

: **Hand protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

: **Body protection**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

: **Other skin protection**

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

: **Respiratory protection**

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Liquid.

: **Physical state**

White.

: **Color**

Characteristic.

: **Odor**

Not available.

: **Odor threshold**

☒ [DIN EN 1262]

: **pH**

Not available.

: **Melting point/freezing point**

Not available.

: **Boiling point, initial boiling point, and boiling range**

☒ closed cup: 105°C (221°F) [Pensky-Martens]

: **Flash point**

Not available.

: **Flammability**

Not available.

: **Lower and upper explosion limit/flammability limit**: **Vapor pressure**

Section 9. Physical and chemical properties and safety characteristics

Vapor pressure at 50°C			Vapor Pressure at 20°C			Ingredient name
Method	kPa	mm Hg	Method	kPa	mm Hg	
				9.6	72.31	ammonia, anhydrous
				0.13	0.99	octamethylcyclotetrasiloxane
				0.1	0.75	2-butoxyethanol
				0.1	0.75	Polyether modified siloxane
				0.033	0.25	decamethylcyclopentasiloxane
				<0.01	<0.075	aluminium hydroxide
				0.00012	0.00087	N,N'-ethylenedi (stearamide)
			OECD 104	<0.0000001	<0.00000075	1,1'-(ethane-1,2-diyl)bis [pentabromobenzene]
				0	0	propylidynetrimethanol

Not available.

1.505 g/cm³ [DIN EN ISO 2811-1]

Media	Result
cold water	Soluble [OESO (TG 105)]

Not available.

Not applicable.

: Relative vapor density

: Density

: Solubility(ies)

: Solubility in water

: Partition coefficient: n-octanol/water

: Auto-ignition temperature

Method	°F	°C	Ingredient name
DIN 51794	446	230	2-butoxyethanol
	472.7	244.85	Paraffin waxes and Hydrocarbon waxes
	626 to 770	330 to 410	Ethene, homopolymer
	694.4 to 699.8	368 to 371	dodecamethylcyclohexasiloxane
ASTM E 659-78	701.6	372	decamethylcyclopentasiloxane
DIN 51794	716	380	N,N'-ethylenedi(stearamide)
ASTM E 659	723.2 to 728.6	384 to 387	octamethylcyclotetrasiloxane
	1203.8	651	ammonia, anhydrous

Not available.

Kinematic (room temperature): 432 mm²/s (432 cSt) [DIN EN ISO 3219]

Kinematic (40°C (104°F)): 201 mm²/s (201 cSt) [DIN EN ISO 3219]

Particle characteristics

Not applicable.

: Decomposition temperature

: Viscosity

: Median particle size

Section 10. Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients.

: Reactivity

The product is stable.

: Chemical stability

Under normal conditions of storage and use, hazardous reactions will not occur.

: Possibility of hazardous reactions

Date of issue/Date of revision : 9-12-2022

Version : 1.02

Date of previous issue : 6-10-2022

6/10

Section 10. Stability and reactivity

No specific data.

: **Conditions to avoid**

No specific data.

: **Incompatible materials**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

: **Hazardous decomposition products**

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Not available.

: **Information on the likely routes of exposure**

Potential acute health effects

No known significant effects or critical hazards.

: **Eye contact**

No known significant effects or critical hazards.

: **Inhalation**

May cause an allergic skin reaction.

: **Skin contact**

No known significant effects or critical hazards.

: **Ingestion**

Symptoms related to the physical, chemical and toxicological characteristics

No specific data.

: **Eye contact**

No specific data.

: **Inhalation**

Adverse symptoms may include the following:

: **Skin contact**

irritation

redness

Section 11. Toxicological information

No specific data.

: Ingestion

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Not available.

: Potential immediate effects

Not available.

: Potential delayed effects

Long term exposure

Not available.

: Potential immediate effects

Not available.

: Potential delayed effects

Potential chronic health effects

Not available.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

: General

No known significant effects or critical hazards.

: Carcinogenicity

No known significant effects or critical hazards.

: Mutagenicity

No known significant effects or critical hazards.

: Reproductive toxicity

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Not available.

: Soil/water partition coefficient (K_{oc})

No known significant effects or critical hazards.

: Other adverse effects

Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

: Disposal methods

Section 14. Transport information

IATA	IMDG	UN	
Not regulated.	Not regulated.	Not regulated.	UN number
-	-	-	UN proper shipping name
-	-	-	Transport hazard class(es)
-	-	-	Packing group
No.	No.	No.	Environmental hazards

Additional information

: IMDG

IMDG Code Segregation group Not applicable

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

: Special precautions for user

Not available.

: Transport in bulk according to IMO instruments

Section 15. Regulatory information

Inventory list

Not determined.

: Australia

At least one component is not listed.

: Canada

Not determined.

: China

Russian Federation inventory: Not determined.

: Eurasian Economic Union

Japan inventory (CSCL): Not determined.

: Japan

Japan inventory (ISHL): Not determined.

Not determined.

: New Zealand

Not determined.

: Philippines

Not determined.

: Republic of Korea

Not determined.

: Taiwan

Not determined.

: Thailand

Not determined.

: Turkey

Not determined.

: United States

Not determined.

: Viet Nam

Section 16. Other information

History

9 December 2022

: Date of printing

9 December 2022

: Date of issue/Date of revision

6 October 2022

: Date of previous issue

1.02

: Version

: Unique ID

Section 16. Other information

ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships,
 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 N/A = Not available
 SGG = Segregation Group
 UN = United Nations

: Key to abbreviations

Procedure used to derive the classification

Justification	Classification
Calculation method	SKIN SENSITIZATION - Category 1
Calculation method	AQUATIC HAZARD (ACUTE) - Category 3
Calculation method	AQUATIC HAZARD (LONG-TERM) - Category 3

Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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