

**ORYX® Grafite FR****SAFETY DATA SHEET**

Version 1.0, 10-03-2016 (English)

SECTION 1: Identification of the material and the company**1.1 Product identification**

ORYX® Grafite FR

1.2 Relevant identified use of the material

Water-based sealant with fire and smoke resistant properties for sealing joints

1.3 Details relating to the issuer of the safety data sheet

Dutch Marine Systems BV
Hoogschaijksestraat 15
5374 EC Schaijk
The Netherlands

SECTION 2: Composition / information content

Polymer emulsion with inorganic fillers, surfactant substances and biocide.

Ingredient	CAS No.	EC No.	REACH reg. no.	Class. According to Reg. (EC) 1278/2008 (CLP)	% W/W
Carbon	7782-42-5	231-955-3	01-2119514421-52-xxxx	Not classified	15-25%
Clay cont. <10% inhalable silica	N/A	934-756-6 (silica)	N/A	STOT RE 2	5-10%

SECTION 3: Hazards identification

Structure of the mix:

- Regulation EC 1272/2008
- This product is not classified as hazardous according to Regulation (EC) 1272/2008 (CLP)

Label parts:

- Regulation EC 1272/2008
- Signal word: none
- Hazard statement: none

SECTION 4: First-aid measures

General:

- In case of doubt or if symptoms persist, seek medical advice.
- If unconscious, place in stable position on the side, do not administer any substance orally.

Inhalation:

- Remove to fresh air.
- If breathing is irregular or stops, place on artificial respiration.
- If necessary, seek medical advice.

Eye contact:

- Remove contact lenses. While eyes are wide open, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.

Skin contact:

- Remove contaminated clothing.
- Wash the skin thoroughly with soap and water or a recognised skin-cleaning agent.
- Do not use any solvents or thinners.
- Seek medical advice if skin irritation persists.

Ingestion:

- If swallowed, rinse mouth with clean water and immediately seek medical advice.
- Keep at rest.
- DO NOT induce vomiting .

SECTION 5: Firefighting measures

The liquid product is not flammable

Suitable extinguishing agents:

- Carbon dioxide, foam, powder, water / water vapour

Particular risks:

- Above 200°C, the product expands rapidly

Fire can generate thick black smoke that contains hazardous particulates (see section 10). Exposure to these particulates can be hazardous to health. Appropriate respiration equipment and approved protective clothing are mandatory. Prevent water used for extinguishing from entering the sewerage system or the environment.

SECTION 6: Accidental release measures

- Remove non-essential personnel. Avoid contact with skin and inhalation of vapours (see sections 7 and 8).
- Collect spilled product with non-flammable absorbent materials (e.g. sand/soil). Place waste in marked containers in accordance with local guidelines (see section 13).
- Clean contaminated surfaces with a suitable solvent and then rinse. Prevent the material from entering the sewerage system or the environment. If the material enters the sewerage system or the environment, alert the local water authority or municipality directly.

SECTION 7: Handling and storage
Handling:

- Avoid skin and eye contact and inhalation of vapours.
- Smoking, eating and drinking must be avoided in storage areas. Wash hands before breaks and after work. For personal protection, see section 8.
- Keep containers closed when not in use.
- Never use air/oil pressure to empty the product as the packaging is not designed for this.
- Ensure a clean workplace and safely remove waste materials on a regular basis.
- Keep an eye on the maximum weight if the product is being moved or used manually.

Storage:

- Observe instructions on label.
- Store in the original sealed packaging between +5°C and +25°C in a dry well-ventilated place. Protect against frost.
- Do not store the product near food, drink or animal feed. Keep out of the reach of children.
- Keep the product away from oxidising agents and strongly alkaline or acid substances.

SECTION 8: Measures to manage exposure / personal protection
Occupational Exposure Limits (OELs):

Substance	OELs				Notes
	8 hours (1)		15 minutes (2)		
	ppm	mg/m ³	ppm	mg/m ³	
Inhalable silica	-	0.1	-	-	-
Carbon (graphite) inhalable	-	4	-	-	YES
Total substance	-	10	-	-	-

(1) Exposure limit over the longer term – 8 hours on average

(2) Exposure limit over the shorter term – 15 minutes on average

Managing exposure:

- Apply and dry only in adequately ventilated areas. Where possible, using on-site extraction. Where this is not possible, use appropriate respiratory equipment.

Personal protection:

- Contact the local supplier of Personal Protective Equipment for advice on choosing adequate equipment for the work setting concerned.
- All Personal Protective Equipment (PPE), including respiratory equipment, used to prevent exposure to hazardous substances, must comply with the requirements of the COSHH regulations.

Breathing protection:

- If exposure to hazardous substances as stated in Section 8 cannot be controlled with natural ventilation, e.g. when working in closed areas, the air supply must be regulated using mechanical ventilation, insofar as that is practically possible. If this is not possible, respiratory equipment must be used.

Hand protection:

- If there is a risk of exposure to skin, a glove supplier must be consulted as to which type of glove is best to use. The instructions and information given by the supplier on the use, storage, maintenance and replacement of the gloves must be followed. Cream can be used to protect the exposed skin, but this is not suitable. Do not apply after exposure.

Eye protection:

- Wear suitable eye protection designed to protect against splashing liquids.

Skin protection:

- Cotton or cotton/synthetic overalls may be used. Very contaminated clothing must always be removed and the skin washed with water and soap or a recognised skin cleaner. Always wash your hands before eating, smoking or using the toilet.

SECTION 9: Physical and chemical properties

- a) Physical condition: viscose paste
- b) Odour: odourless
- c) Flash point.: above 100 °C
- d) Specific density: 1.5 – 1.6 g/cm³ (20 °C)
- e) Colour: grey
- f) Solubility in water: mixable
- g) pH value: 7.5 – 8.5

SECTION 10: Stability and reactivity

Stability:

- No data available

Chemical stability:

- Stable under normal temperatures and storage conditions

Hazardous reactions:

- None known

Circumstances to be avoided:

- See above

Non-compatible materials:

- See above

Hazardous decomposition products:

- Carbon oxides are released at high temperatures (>300°C)

SECTION 11: Toxicological information

There is no evidence that the product has any toxicological effects.

Ingestion:

- May cause stomach cramps if swallowed

Skin contact:

- May cause skin irritation

Eye contact:

- Risk of irritation of the eyes

Sensitivity/irritability:

- No sensitivity/irritability

STOT:

- Not classified

SECTION 12: Ecological information

Ecotoxicity:

- Considered non-hazardous to the environment
- Considered non-toxic for fish

Biological decomposition:

- Not biodegradable

Bio accumulation:

- No potential for bio accumulation

Mobility in the soil:

- Not mobile



Results of PBT and zPvB assessment:

- Not classified as PBT/vPvB

Other hazardous effects:

- None known

SECTION 13: Instructions for disposal

- Handle this material as special waste in accordance with local or national regulations.
- Do not discharge into open water or into the sewerage system.

SECTION 14: Information relating to transport

This product is not classified in accordance with international regulation for the transport of hazardous goods.

Transport on-site:

- Always transport upright and sealed. Ensure that those who transport the product know what they have to do in the event of a calamity.

UN number:

- N/A

Correct technical name:

- N/A

Transport risk class:

- N/A

Packaging group:

- N/A

Environmental risks:

- Not classified as a water contaminant

Special preventive measures for users:

- N/A

Transport in bulk in line with Annex II of MARPOL 73/78 and the IBC code:

- N/A

SECTION 15: Regulatory information

Safety, health and environmental regulations / legislation for the substance or mix:

- Chemical (Hazard Information and Packaging for Supply) (Amendment) Regulations 2009
- Control of Substances Hazardous to Health Regulations 1999
- Environment Act 1995
- Management of Health and Safety at Work Regulations 1999
- Personal Protective Equipment at Work Regulations 1992
- Special Waste Regulations 1996 as amended

HEALTH AND SAFETY REGULATIONS:

HS(G)37	An Introduction to Local Exhaust Ventilation
EH40	Occupational Exposure Limits
EH44	Dust: General Principles of Protection
HS(G)53	The Selection, Use and Maintenance of Respiratory Protective Equipment
HS(G)71	Storage of Packaged Dangerous Substances
HS(G)193	COSHH Essentials: easy steps to control chemicals
L23	Manual Handling Guidance on Regulations

BRITISH STANDARDS PUBLICATIONS

EN420:	General Requirements for Gloves
EN166:	Personal Eye Protection: Specifications
BS2092:	Eye Protection for Industrial and Non-Industrial Users
BS4275:	Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment

The information provided in this safety data sheet does not mean the user should refrain from assessing the working risks as stated in the Working Conditions Act. The provisions of this Act always apply when using this product.

SECTION 16: Other information

Symbols and text of the R phrases in section 2 and 3

STOT SE2: Specific target organ toxicity – single exposure, category 2

This safety data sheet must be used in combination with technical data sheets. It does not replace them. The information provided is based on our knowledge of this product at the date of publication. It is provided in good faith.

The attention of the user is drawn to the potential risks associated with using this product for any other purpose than that for which it was intended.

This does not justify in any way a user operating beyond the knowledge and application of all instructions relating to his activities. It is the responsibility of the user to meet his obligations relating to the use of hazardous products.

This information is not exhaustive. This does not mean the user may negate statutory obligations other than those stated in relation to the use and storage of the product. This is his or her responsibility alone.

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to independently determine the methods for protecting employees and the environment.