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SAFETY DATA SHEET

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RUBIO MONOCOAT OIL PLUS 2C (A)

Producer

NV MUYLLE-FACON
Ambachtenstraat 58
8870 Izegem BELGIUM
In case of emergency : 0032(0)51308054

Responsible for distribution

NV MUYLLE-FACON
Ambachtenstraat 58
8870 Izegem BELGIUM
In case of emergency : 0032(0)51308054

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the product : Oil.
Trade name : RUBIO MONOCOAT OIL PLUS 2C (A)
Product code : RUBIO MONOCOAT OIL PLUS 2C (A)
Type of product : Protective Wood Oil.
Use : Professional users. Do it yourself. See product bulletin for detailed information.
Company identification : NV MUYLLE-FACON
Ambachtenstraat 58
8870 Izegem BELGIUM
Emergency phone nr : 0032(0)51308054

2 HAZARDS IDENTIFICATION

Hazard classification : According to the Preparation Directive 1999/45/EC this product is classified as not dangerous

3 COMPOSITION / INFORMATION ON INGREDIENTS

Components : This product is not hazardous.
Not regulated under the criteria of Directive 67/548/EEC.
This product does not contain hazardous components.
Components : This product is not hazardous.

4 FIRST AID MEASURES

First aid measures

- **General information** : In the event of faintness, seek medical advice.
Never give anything by mouth to an unconscious person. In case of loss of conscience place the victim in the recovery position. Call a doctor.
- **Inhalation** : Assure fresh air breathing. Keep victim warm and rested. If not breathing, give artificial respiration.
- **Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Do not use : Solvent. Thinner.
- **Eye contact** : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Retract eyelids often.
Obtain medical attention if pain, blinking, tears or redness persist.
- **Ingestion** : Rinse mouth. Do not induce vomiting. Keep victim warm and rested. Seek medical attention immediately.

5 FIRE-FIGHTING MEASURES

Flammable class : The product is not flammable.
Specific hazards : Under fire conditions, hazardous fumes will be present.
Danger of serious damage to health by exposure through inhalation.
Prevention : No naked lights. No smoking.
Surrounding fires : Use water spray or fog for cooling exposed containers.
Avoid (reject) fire-fighting water to enter environment.
Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

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5 FIRE-FIGHTING MEASURES (continued)

Special procedures : Exercise caution when fighting any chemical fire.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : See Headings 7 and 8.

General precautions : No smoking. Do not breathe gas/fumes/vapour.
Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. To clean the floor and all objects contaminated by this material, use : Appropriated cleaning product. Do not use : Solvent.
Use suitable disposal containers. Dispose in a safe manner in accordance with local/national regulations.

7 HANDLING AND STORAGE

General : No smoking.

Personal protection : Avoid all unnecessary exposure.
See Heading 8.

Storage : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place. Never place the packings under pressure, these are not resistant to that.

Storage - away from : Oxidizer. Strong bases. Strong acids.

Handling : Do not breathe gas, fumes, vapour or spray. Ensure prompt removal from eyes, skin and clothing.
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

- **Hand protection** : Wear suitable gloves resistant to chemical penetration.
Hand protection : skin cream may be used. Do not apply after skin contact with the product.

- **Skin protection** : No special protection required where adequate ventilation is maintained.

- **Eye protection** : Even though no specific eye irritation data is available, wear eye protection appropriate to conditions of use when handling this material.

- **Ingestion** : When using, do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C : Liquid.

Odour : Natural oil.

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RUBIO MONOCOAT OIL PLUS 2C (A)**10 STABILITY AND REACTIVITY**

- Stability and reactivity** : Stable under normal conditions.
- Hazardous decomposition products** : When heated to decomposition, emits dangerous fumes. Carbon monoxide. Carbon dioxide. Nitrogen oxides. etc...
- Hazardous reactions** : None under normal conditions.
- Hazardous properties** : None under normal conditions.
- Materials to avoid** : Alkali. Strong acids. Oxidizing agent. (An exothermic reaction may occur.)

11 TOXICOLOGICAL INFORMATION

- Toxicity information** : The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment. See chapter 2 and 15 for more information.
- **Dermal** : Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis.
- **Ocular** : May cause delayed painful eye irritation and tearing.

12 ECOLOGICAL INFORMATION

- Ecological effects information** : The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment. See chapter 2 and 15 for more information.

13 DISPOSAL CONSIDERATIONS

- General** : Avoid release to the environment.
Dispose in a safe manner in accordance with local/national regulations.

14 TRANSPORT INFORMATION

- General information** : Not classified.
Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Keep container tightly closed.

15 REGULATORY INFORMATION

- EC Classification** : Not classified as dangerous product (Directive 1999/45/EC).
- Symbol(s)** : None.
- R Phrase(s)** : None.
- S Phrase(s)** : None.

16 OTHER INFORMATION

- Further information** : None.

The contents and format of this SDS are in accordance with EC Commission Directive 2001/58/EC.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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RUBIO MONOCOAT OIL PLUS 2C (B)

M035

Xi : Irritant

Producer

MUYLLE FACON NV/SA
Industriezone Abele
Ambachtenstraat 58
8870 Izegem Belgie-Belgique
Tel. : 0032 51 30 80 54
Fax. : 0032 51 30 99 78

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the product : RUBIO MONOCOAT OIL PLUS 2C (B)
Type of product : Protective Wood Oil
Use : Professional users. Do it yourself. See product bulletin for detailed information.
Emergency phone nr : UK : 0044 870 600 6266

2. COMPOSITION / INFORMATION ON INGREDIENTS

Volatile organic compounds : 0 g/l
This product is considered to be hazardous and contains hazardous components (Directive 67/548/EEC).
Hexamethylene diisocyanate (CAS : 822-06-0) : < 0.5 % - EC
N° :212-485-8 - EC Classification : T; R23 - Xi, R36/37/38- R42/43 - (19 N)§

3. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS

Adverse human health effects : Slightly irritating to eyes and skin.
May cause sensitization by skin contact.
Environmental effects : Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.

Physical and chemical hazards

- Fire or explosion : Combustible liquid.
- Further hazards : On contact with water:
carbon dioxide is released.
Hazardous reactions occur on contact with many common products. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

- Specific hazards : According to EC criteria, this product is classified as :
- SENSITIZING.

MUYLLE FACON NV/SA

Industriezone Abele Ambachtenstraat 58 8870 Izegem Belgie-Belgique
Tel. : 0032 51 30 80 54 - Fax. : 0032 51 30 99 78

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4. FIRST AID MEASURES

- Inhalation** : Move the person away from the contaminated area. Make the affected person rest.
Obtain medical attention.
Show this sheet to the doctor.
- Skin contact** : Remove all contaminated clothing and footwear.
Use appropriate protective equipment when treating a contaminated person.
Wash with soap and water. Wash immediately and thoroughly for a prolonged period (at least 15 minutes).
In case of inflammation (redness, irritation, ...) obtain medical attention.
Show this sheet to the doctor.
- Eye contact** : Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) whilst keeping the eyes wide open If irritation persists, consult a doctor.
Show this sheet to the doctor.
- Ingestion** : NEVER attempt to induce vomiting. Do not give anything to drink.
If necessary seek medical advice.
Show this sheet to the doctor.
- Further information** : Place contaminated clothing in a sealed bag for disposal. Use appropriate protective equipment when treating a contaminated person.

5. FIRE-FIGHTING MEASURES

- Extinguishing media**
- Suitable : Foam
Powders
Carbon dioxide (CO2)
 - Not suitable : Water.
- Specific hazards** : Combustible.
During combustion:
Toxic vapours are released.
- Specific fire fighting methods** : Stay upwind.
Evacuate the personnel away from the fumes.
In case of fire close by:
Cool down the containers/equipment exposed to heat with a water spray.
Ensure that there is NO direct contact between the water and the product.
- Protection of fire-fighters** : Self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Avoid contact with skin and eyes.
Do not breathe gas.
Personal protective equipment:
- respiratory protective device.
- appropriate gloves.
- safety glasses.
- suitable protective clothing.:
- Environmental precautions** : Contain the spilled material by bunding.
- Methods for cleaning up**
- **Recovery** : Absorb the product onto porous material.
- **Cleaning/Decontamination** : Wash contaminated area with large amounts of water.
Recover the cleaning water for subsequent disposal.
- **Disposal** : For disposal of solid materials or residues refer to section 13:
"Disposal considerations"

7. HANDLING AND STORAGE

HANDLING

- Technical measures** : Closed system, ventilation.
- Measures** : Avoid contact with water or humidity.
- Safe handling advice** : Comply with instructions for use (refer to technical sheet).
Ensure that there is a suitable ventilation system, when spraying a formulation of this product (possible generation of aerosol or vapour).

STORAGE

- Technical measures** : The floor of the depot should be impermeable.
- Storage conditions**
- **Recommended** : Store:
To guarantee the quality and properties of the product keep:
- in a cool, well-ventilated area
- the container tightly closed and dry.
- only in the original container
- Incompatible products** : Refer to the detailed list of incompatible materials (section 10 "Stability/Reactivity").
- Packaging** : Product must only be kept in the original packaging.
- Metallic drums.
- Storage tank with a dry nitrogen blanket.
- Packaging materials**
- **Recommended** : Aluminium.
Steel.
- **Not suitable** : Copper and its alloys.
Tin

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	: Ensure good ventilation of the work station.
Control parameters	
Occupational exposure limits	
- Limits (France)	: The recommended limits SHOULD NOT be exceeded. VME: 0.075 mg/m ³ (0.01 ppm) VLE: 0.15 mg/m ³ (0.02 ppm). (for HDI) VLE: 1 mg/m ³ (for the HDI prepolymer)
- Limits (U.S.A./A.C.G.I.H.)	: TLV (TWA) : 0.034 mg/m ³ (0.005 ppm). (for HDI)
- Limits (UK)	: Isocyanates, all (as NCO): WEL: 0.02 mg/m ³ (8h TWA). WEL: 0.07 mg/m ³ (15 minute STEL). Sen notation - i.e. Capable of causing respiratory sensitization.
Personal protective equipment	
- Respiratory protection	: When using a spray-gun, wear: Self-contained breathing apparatus. In the event of insufficient ventilation: Self-contained breathing apparatus.
- Hand protection	: Nitrile protective gloves Use suitable chemical-resistant protective gloves (compliant with Standard EN 374-1) Protective gloves must be chosen according to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required. The selection of gloves must take into account the extent and duration of use at the workstation.
- Eye protection	: Goggles.
- Skin and body protection	: Protective clothing.
- Selection criteria	: Protective equipment must be chosen according to current CEN standards and in cooperation with the supplier of protective equipment.
Collective emergency equipment	: Safety shower. Eye fountain.
Hygiene measures	: Always take a shower after work. Do NOT drink, eat or smoke in the workplace. Separate normal clothes from work-clothes. Use clean and correctly maintained personal protective equipment. Keep personal protective equipment in a clean place, away from the work area

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RUBIO MONOCOAT OIL PLUS 2C (B)**M035****9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE**

- Physical state : Liquid.
- Form : clear.
- Colour : colourless to pale yellow.
- Odour : none.
- pH : Not applicable (reacts with water).
- Specific temperatures**
- Boiling : > 150°C at 1.33 hPa.
- Flammability characteristics**
- Flash point : >160°C (Closed cup).
- Oxidizing properties** : Non oxidizing material according to EC criteria.
- Specific gravity** : 1131 kg/m³ at 25°C.
- Solubility**
- in water : Reacts.
- in organic solvents : Soluble in:
 - ketones.
 - esters.
 - aromatic hydrocarbons.
- Octanol/water partition coefficient** : Not applicable (reacts with water and/or octanol)
- Dynamic viscosity** : approx. 600 mPa.s at 25°C.

10. STABILITY AND REACTIVITY

- Stability** : Stable at room temperature.
- Hazardous reactions**
- **Materials to avoid** : Reacts violently on contact with water.
 - alcohols.
 - amines.
 - bases.
 - water and aqueous solutions.
 - protic solvents.with a great release of CO₂, and hence a risk of a pressure build-up in confined areas.
and forms an insoluble solid precipitate.
- **Hazardous decomposition products** : On thermal decomposition (pyrolysis) releases:
 - toxic gases.
 - (Carbon dioxide (CO₂)).
 - (Nitrogen oxides).

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11. TOXICOLOGICAL INFORMATION

- Acute toxicity** : By analogy.
NOT considered to be : Harmful by inhalation, in contact with skin and if swallowed. (internal evaluation)
Hexamethylene diisocyanate oligomers:
LD 50 oral (Rat) : > 5000 mg/kg.
(Unpublished reports)
- Local effects** : At high concentrations, the vapours can be irritating to the respiratory system.
Repeated or prolonged contact may cause slight irritation to the skin.
May cause irritation to the eyes.
- Sensitisation** : By analogy the product is considered as :skin sensitiser
No pulmonary sensitisation was observed in guinea pigs after either intradermal injection or inhalation induction with HDI polyisocyanates.
(Unpublished reports)
May cause respiratory sensitisation phenomena (asthma) in sensitive individuals or those who have already been sensitised

12. ECOLOGICAL INFORMATION

- MOBILITY**
Expected behaviour of the product : Ultimate destination of the product : SOIL and SEDIMENT.
- BIODEGRADABILITY**
- Ultimate aerobic biodegradability : Not biodegradable.
(internal evaluation)
- BIOACCUMULATION**
Bioconcentration factor. : Not bioaccumulable.
(internal evaluation)
- ECOTOXICITY**
Effects on the aquatic environment : The product does not have any known adverse effects on the aquatic organisms tested.
(Unpublished reports)

13. DISPOSAL CONSIDERATIONS

- RESIDUES FROM PRODUCT**
Prohibition : Discharging waste into rivers and drains is forbidden.
Destruction/Disposal : Neutralize with a mixture of ammonia solution (190g/l), water and ethanol (5%, 50% and 45%).
Incinerate at a licensed installation.
- CONTAMINATED PACKAGING**
Decontamination/cleaning : Allow it to drain thoroughly.
Destruction/Disposal : Incinerate drums and bottles at a licensed site.
- NOTE** : The user's attention is drawn to the possible existence of local regulations regarding disposal.

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14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS

Land

- Rail/road (RID/ADR) : NOT restricted.

Sea (IMO/IMDG) : NOT restricted.

Air (ICAO-IATA) : NOT restricted.

OTHER REGULATIONS

- United Kingdom: Rail/road : NOT restricted.

NOTE

: The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the SDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

15. REGULATORY INFORMATION

LABELLING

EC regulations : Mandatory labelling (self-classification) of hazardous substances:

APPLICABLE

- Classifications/Symbols : - IRRITANT (Xi)

- R phrases : R 43: May cause sensitisation by skin contact.

- S phrases : S 7/8: Keep container tightly closed and dry.

S 23: Do not breathe vapour and spray.

S 24 : Avoid contact with skin.

S 37: Wear suitable gloves.

S 38: In case of insufficient ventilation, wear suitable respiratory equipment.

>>Further regulations

United Kingdom

: Handle in accordance with relevant British legislation:
 Chemical Hazard Information and Packaging for Supply Regulations
 Control of Substances Hazardous to Health Regulations
 Environmental Hygiene Guidance: EH/40 Workplace Exposure Limits (revised annually).
 Environmental Protection Act
 Collection and Disposal of Waste Regulations

NOTE

: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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16. OTHER INFORMATION

Uses

- Prohibited uses

: The product is used mainly as a hardener in coating materials or adhesives. The handling of coating materials or adhesives containing reactive polyisocyanates and residual monomeric HDI requires appropriate protective measures referred to in this safety data sheet. These products may therefore be used only in industrial or trade applications. They are not suitable for use in homemaker (DIY) applications.

R Phrases of § 2 & 3

: R 23 : Toxic by inhalation.
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 42/43: May cause sensitisation by inhalation and skin contact.:

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