

SAFETY DATA SHEET

Page : 1

Revised edition no : 1

Date : 21/3/2008

Supersedes : 0/0/0

RUBIO MONOCOAT ACCELERATOR (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 ACCELERATOR (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

| | | |
|---------------------------------------|--------------------------|------------------------|
| | SAFETY DATA SHEET | Page : 2 |
| | | Revised edition no : 1 |
| | | Date : 21/3/2008 |
| | | Supersedes : 0/0/0 |
| RUBIO MONOCOAT ACCELERATOR (B) | | M035 |

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.

| | | |
|---------------------------------------|--------------------------|------------------------|
| | SAFETY DATA SHEET | Page : 3 |
| | | Revised edition no : 1 |
| | | Date : 21/3/2008 |
| | | Supersedes : 0/0/0 |
| RUBIO MONOCOAT ACCELERATOR (B) | | M035 |

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 |

| | | |
|---------------------------------------|--------------------------|------------------------|
| | SAFETY DATA SHEET | Page : 4 |
| | | Revised edition no : 1 |
| | | Date : 21/3/2008 |
| | | Supersedes : 0/0/0 |
| RUBIO MONOCOAT ACCELERATOR (B) | | M035 |

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 |

SAFETY DATA SHEET

Page : 5

Revised edition no : 1

Date : 21/3/2008

Supersedes : 0/0/0

RUBIO MONOCOAT ACCELERATOR (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).

SAFETY DATA SHEET

Page : 6

Revised edition no : 1

Date : 21/3/2008

Supersedes : 0/0/0

RUBIO MONOCOAT ACCELERATOR (B)**M035****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.

| | | |
|---------------------------------------|--------------------------|------------------------|
| | SAFETY DATA SHEET | Page : 7 |
| | | Revised edition no : 1 |
| | | Date : 21/3/2008 |
| | | Supersedes : 0/0/0 |
| RUBIO MONOCOAT ACCELERATOR (B) | | M035 |

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.

| | | |
|---------------------------------------|--------------------------|------------------------|
| | SAFETY DATA SHEET | Page : 8 |
| | | Revised edition no : 1 |
| | | Date : 21/3/2008 |
| | | Supersedes : 0/0/0 |
| RUBIO MONOCOAT ACCELERATOR (B) | | M035 |

| |
|------------------------------|
| 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.:

The contents and format of this SDS are in accordance with EEC 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.

End of document