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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : RUBBER BINDER-M20
Product code : 340-2-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : One Component moisture curing Polyurethane binding resin For rubber and EPDM granules
<<FOR PROFESSIONAL USERS ONLY>>

1.3. Details of the supplier of the safety data sheet

Company identification : ALCHIMICA S.A.
13, ORIZOMILON STR.
Tel: +30-210/569-1336, Fax: +30-210-5619287
122 44 EGALEO - ATHENS GREECE
alchimica@alchimica.com

1.4. Emergency telephone number

Phone nr : +30-210/569-1336 [Business hours only]

2. Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Carc. Cat. 3; R40
R42/43

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

Health hazards : Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Carcinogenicity - Category 2 - Warning (CLP : Carc. 2) H351

2.2. Label elements


Labelling EC 67/548 or EC 1999/45

Symbol(s)



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2. Hazards identification (continued)

Symbol(s)	: Xn : Harmful
R Phrase(s)	: R40 : Limited evidence of a carcinogenic effect. R42/43 : May cause sensitization by inhalation and skin contact.
S Phrase(s)	: S2 : Keep out of the reach of children. S23 : Do not breathe the gas, fumes, vapours, spray. S36/37 : Wear suitable protective clothing and gloves. S40 : To clean the floor and all objects contaminated by this material, use xylene. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible). S63 : In case of accident by inhalation : remove casualty to fresh air and keep at rest.
Contains	: Diphenylmethane-4,4'-diisocyanate <<Contains isocyanates. See information supplied by the manufacturer>>.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms




Signal words	: Danger
Hazard statements	: H351 : Suspected of causing cancer. H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 : May cause an allergic skin reaction.
Precautionary statements	
• General	: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use. P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood.
• Prevention	: P285: In case of inadequate ventilation wear respiratory protection. P280: Wear protective gloves. P261: Avoid breathing dust, fume, gas, mist, vapours, spray. P272: Contaminated work clothing should not be allowed out of the workplace.
• Response	: P304+P341: IF INHALED : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. P302+P352: IF ON SKIN : Wash with plenty of soap and water. P308+P313: If exposed or concerned : get medical advice. P333+P313: If skin irritation or rash occurs : Get medical advice. Wash contaminated clothing before reuse.
• Storage	: P405: Store locked up.
• Disposal considerations	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Contains	: Diphenylmethane-4,4'-diisocyanate

2.3. Other hazards

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2. Hazards identification (continued)

None under normal conditions.

3. Composition/information on ingredients

Substance / Preparation : Preparation.
Hazardous component(s) : This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Diphenylmethane-4,4'-diisocyanate	< 5 %	101-68-8	202-966-0	615-005-00-9	-----	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43 ----- Resp. Sens. 1 _ H334 Acute Tox. 4 (inhal) _ H332 Carc. 2 _ H351 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335 Skin Sens. 1 _ H317 STOT RE 2 _ H373

4. First aid measures

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest.
Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion : Do not induce vomiting.
 Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures


5.1. Extinguishing media

Suitable extinguishing media : Foam. Water spray. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

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5. Fire-fighting measures (continued)

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spills and put it into appropriated container.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.


Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

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8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection



Personal protection

- **Respiratory protection** : Avoid all unnecessary exposure.
: In case of inadequate ventilation wear respiratory protection.
Where excessive vapour may result, wear approved mask.
- **Hand protection** : Wear protective gloves.
In case of repeated or prolonged contact wear gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

8.2. Control parameters


9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Transparent - Yellow.
Odour	: Characteristic.
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: No data available.
Decomposition point [°C]	: No data available.
Critical temperature [°C]	: No data available.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: No data available.
Flash point [°C]	: >200
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: No data available.
Acid/alkali reserve [g NaOH/100g]	: No data available.
Explosion limits - lower [%]	: No data available.
Explosion limits - upper [%]	: No data available.
Vapour pressure mm/Hg	: No data available.
Vapour density	: No data available.
Density [g/cm³]	: 1.04-1.06
Solubility in water [% weight]	: No data available.

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9. Physical and chemical properties (continued)

Solubility in water : Insoluble.
Log Pow octanol / water at 20°C : No data available.
Solubility : Organic solvents.
Viscosity at 20°C [mPa.s] : 2500-3000

9.2. Other information

Explosive properties : No data available.
Oxidising properties : No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes.


11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not established.
Corrosion : Not established.
Irritation : Not established.
Sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.

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11. Toxicological information (continued)

Mutagenicity	: Not established.
Carcinogenicity	: Suspected of causing cancer.
Toxic for reproduction	: Not established.
STOT-single exposure	: Not established.
STOT-repeated exposure	: Not established.
Aspiration hazard	: Not established.

12. Ecological information

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Log Pow octanol / water at 20°C : No data available.
 Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : Not applicable.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods


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

14. Transport information

14.1. Land transport (ADR-RID)

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14. Transport information (continued)

General information : Not regulated.

14.2. Sea transport (IMDG) [English only]

General information : Not regulated.

14.3. Air transport (ICAO-IATA) [English only]

General information : Not regulated.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See : *

Abbreviations and acronyms : Not applicable.

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3) : R20 : Harmful by inhalation.
R36/37/38 : Irritating to eyes, respiratory system and skin.
R40 : Limited evidence of a carcinogenic effect.
R42/43 : May cause sensitization by inhalation and skin contact.
R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.

List of full text of H-statements in section 3 : H351 : Suspected of causing cancer.
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 : May cause an allergic skin reaction.


Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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