	SAFETY DATA SHEET	Page : 1 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
HYPERDESMO®-D-2K-A		320-2-3-A

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

1.1. Product identifier

Trade name : HYPERDESMO®-D-2K-A
Product code : 320-2-3-A

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

Use : Two component polyurethane paint for industrial floors
<<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
Xn; R20-48/20
Xi; R36/37/38
R42/43


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

Health hazards : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
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
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
Category 3 - Warning (CLP : STOT SE 3) H335
Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP :
STOT RE 2) H373

2.2. Label elements

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	SAFETY DATA SHEET	Page : 2 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
HYPERDESMO®-D-2K-A		320-2-3-A

2. Hazards identification (continued)

Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s)

: Xn : Harmful

R Phrase(s)

: 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.

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

: methylenediphenyl diisocyanate isomers and homologues <<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.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 : May cause an allergic skin reaction.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

H373 : May cause damage to organs through prolonged or repeated exposure.

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

: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P285: In case of inadequate ventilation wear respiratory protection.


P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

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	<h1>SAFETY DATA SHEET</h1>	Page : 3 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
<h2>HYPERDESMO®-D-2K-A</h2>		<h3>320-2-3-A</h3>

2. Hazards identification (continued)

- Response** : P272: Contaminated work clothing should not be allowed out of the workplace.
 : P304+P340+P312: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
 P305+P351+P338+P337+P313: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.
 P302+P352+P362+P332+P313+P321: IF ON SKIN : Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs : Get medical advice. Specific treatment.
 P308+P313: If exposed or concerned : get medical advice.
 P333+P313: If skin irritation or rash occurs : Get medical advice.
- Storage** : P233: Keep container tightly closed.
 P235: Keep cool.
 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** : methylenediphenyl diisocyanate isomers and homologues

2.3. Other hazards

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
methylenediphenyl diisocyanate isomers and homologues	= 99 %	9016-87-9	----	----	----	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** : IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment is urgent.
- Skin contact** : IF ON SKIN : Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs : Get medical advice. Specific treatment.
- Eye contact** : IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice. Rinse immediately with plenty of water.

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	SAFETY DATA SHEET	Page : 4 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
HYPERDESMO®-D-2K-A		320-2-3-A

4. First aid measures (continued)

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

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.

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	SAFETY DATA SHEET	Page : 5 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
HYPERDESMO®-D-2K-A		320-2-3-A

6. Accidental release measures (continued)

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.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection




Personal protection : Avoid all unnecessary exposure.
• **Respiratory protection** : 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.
• **Skin protection** : Wear suitable protective clothing.
• **Eye protection** : Chemical goggles or safety glasses.
• **Others** : When using, do not eat, drink or smoke.

8.2. Control parameters

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	SAFETY DATA SHEET	Page : 6 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
HYPERDESMO®-D-2K-A		320-2-3-A

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Brown.
Odour	: Aromatic.
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/cm ³]	: 1.24
Solubility in water [% weight]	: No data available.
Solubility in water	: Insoluble.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Ether.
Viscosity at 20°C [mPa.s]	: 200

9.2. Other information

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

10. Stability and reactivity

10.1. Reactivity


Reactivity	: Not established.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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	SAFETY DATA SHEET	Page : 7 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
HYPERDESMO®-D-2K-A		320-2-3-A

10. Stability and reactivity (continued)

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 : Harmful if inhaled.
Corrosion : Not established.
Irritation : Causes serious eye irritation.
Causes skin irritation.
May cause respiratory irritation.
Sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Mutagenicity : Not established.
Carcinogenicity : Suspected of causing cancer.
Toxic for reproduction : Not established.
STOT-single exposure : Not established.
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.
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

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	SAFETY DATA SHEET	Page : 8 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
HYPERDESMO®-D-2K-A		320-2-3-A

12. Ecological information (continued)

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)

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

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	SAFETY DATA SHEET	Page : 9 / 9
		Revised edition no : 0
		Date : 14 / 1 / 2011
		Supersedes : 0 / 0 / 0
HYPERDESMO®-D-2K-A		320-2-3-A

15. Regulatory information (continued)

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.
H319 : Causes serious eye irritation.
H315 : Causes skin irritation.
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 : May cause an allergic skin reaction.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H373 : May cause damage to organs through prolonged or repeated exposure.

Further information : None.

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

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