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HYPERDESMO®-ADY		150-2-1

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

1.1. Product identifier

Trade name : HYPERDESMO®-ADY
Product code : 150-2-1

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

Use : Polyurethane coating for chemical protection, sealing and waterproofing
, <<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 : R10
Xn; R20/21
Xi; R38

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
Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
Category 3 - Warning (CLP : STOT SE 3) H335


Physical hazards : Flammable liquids - Category 3 - Warning (CLP : Flam. Liq. 3) H226

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

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2. Hazards identification (continued)

Symbol(s)



Symbol(s)

: Xn : Harmful

R Phrase(s)

: R10 : Flammable.
R20/21 : Harmful by inhalation and in contact with skin.
R38 : Irritating to skin.

S Phrase(s)

: S2 : Keep out of the reach of children.
S25 : Avoid contact with eyes.
S36/37 : Wear suitable protective clothing and gloves.
S40 : To clean the floor and all objects contaminated by this material, use xylene.
S46 : If swallowed seek medical advice immediately and show this container or label.

Further Phrases

: Contains : Hexamethylene-1,6-di-isocyanate homopolymer. May produce an allergic reaction.

Contains

: Xylene - Hexamethylene-1,6-di-isocyanate homopolymer ,
<<Contains isocyanates. See information supplied by the manufacturer>>.

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Danger

Hazard statements

: H226 : Flammable liquid and vapour.
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.

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.

• Prevention


: P280: Wear protective gloves, protective clothing, eye protection, face protection.
P285: In case of inadequate ventilation wear respiratory protection.
P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.
P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
P264: Wash thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.

• Response

: 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.
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.

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2. Hazards identification (continued)

- P333+P313: If skin irritation or rash occurs : Get medical advice.
P378: Use for extinction : All extinguishing media can be used.
- **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** : Xylene - Hexamethylene-1,6-di-isocyanate homopolymer

2.3. Other hazards

None under normal conditions.

3. Composition/information on ingredients

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Substance / Preparation : Preparation. Hazardous component(s) : This product is hazardous.						
Hexamethylene-1,6-di-isocyanate homopolymer	< 0.5 %	28182-81-2	500-060-2	----	----	Xn; R20 R42/43 ----- Resp. Sens. 1 _ H334 Acute Tox. 4 (inhal) _ H332 Skin Sens. 1 _ H317
Xylene	40 - 52.5 %	1330-20-7	215-535-7	601-022-00-9	----	R10 Xn; R20/21 Xi; R38 ----- Flam. Liq. 3 _ H226 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332 Skin Irrit. 2 _ H315 STOT SE 3 _ H335

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** : 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.

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4. First aid measures (continued)

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

Flammable class : Flammable liquid and vapour.
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.
Technical measures : Use special care to avoid static electric charges. Eliminate every possible source of ignition. No naked lights. No smoking.
Special precautions : Remove ignition sources.

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

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6. Accidental release measures (continued)

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. Proper grounding procedures to avoid static electricity should be followed.
- Handling** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Handle empty containers with care because residual vapours are flammable.
- Special precautions** : In use, may form flammable vapour-air mixture.
No naked lights. No smoking. Store and handle as though always a serious potential fire/explosion and health hazard exists.

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. Keep in fireproof place.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

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** : Where excessive vapour may result, wear approved mask.
In case of inadequate ventilation wear respiratory protection.
 - **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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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Transparent
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)	: Flammable liquid and vapour.
Flash point [°C]	: 28
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]	: 0.98
Solubility in water [% weight]	: No data available.
Solubility in water	: Insoluble.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Organic solvents.
Viscosity at 20°C [mPa.s]	: 100

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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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. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes.
May release flammable gases.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.
Corrosion : Not established.
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 : Not established.
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.

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12. Ecological information (continued)

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.

Special precautions : Handle empty containers with care because residual vapours are flammable.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : COATING SOLUTION

UN N° : 1139

H.I. nr : 30

ADR - Class : 3

Labelling - Transport : 3



ADR - Classification code : F1
F1

ADR - Group : III


ADR - Packing instructions : P001 R001 LP001

ADR - Limited Quantity : LQ 7

Combination packagings - Inner packaging : Maximum : 5 l
Combination packagings - Package : Maximum : 30 kg

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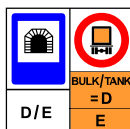
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14. Transport information (continued)

Inner packagings placed in shrink-wrapped or stretch-wrapped trays - Inner packaging : Maximum contents : 5 l
 Inner packagings placed in shrink-wrapped or stretch-wrapped trays - Package Maximum : 20 kg

ADR - Tunnel code



: D/E : Passage forbidden through tunnels of category D when carried in bulk or in tanks. Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper Shipping Name : COATING SOLUTION
 UN N° : 1139
 IMO-IMDG - Class or division : 3
 IMO-IMDG - Packing group : III
 IMO-IMDG - Packing instructions : P001 LP01
 IMO-IMDG - Limited quantities : 5 L
 IMO-IMDG - Marine pollution : YES
 EMS-Nr : F-E S-E

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


Proper shipping name : COATING SOLUTION
 UN N° : 1139
 IATA - Class or division : 3
 IATA - Packing group : III
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing instruction : 309
 - Passenger and Cargo - Maximum Quantity/Packing : 60 L
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 310
 - Cargo only - Maximum Quantity/Packing : 220 L
 IATA - Limited Quantities : 10 L
 ERG-Nr : 3L

15. Regulatory information

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

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15. Regulatory information (continued)

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) : R10 : Flammable.
R20 : Harmful by inhalation.
R20/21 : Harmful by inhalation and in contact with skin.
R38 : Irritating to skin.
R42/43 : May cause sensitization by inhalation and skin contact.

List of full text of H-statements in section 3 : H226 : Flammable liquid and vapour.
H315 : Causes skin irritation.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.

Further information : None.

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

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