

# SAFETY DATA SHEET

## AGOMET® HARDENER POWDER

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** : AGOMET® HARDENER POWDER  
**Product code** : 00048885  
**Product description** : Not available.

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

**Product use** : Acrylate activator

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** : Huntsman Advanced Materials (Europe)BVBA  
Everslaan 45  
3078 Everberg / Belgium  
Tel.: +41 61 299 20 41  
Fax: +41 61 299 20 40

**e-mail address of person responsible for this SDS** : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

##### Supplier

**Telephone number** : EUROPE: +32 35 75 1234  
France ORFILA: +33(0)145425959  
ASIA: +65 6336-6011  
China: +86 20 39377888  
Australia: 1800 786 152  
New Zealand: 0800 767 437  
USA: +1/800/424.9300

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

##### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : O; R7  
Xi; R36  
R43

**Physical/chemical hazards** : May cause fire.

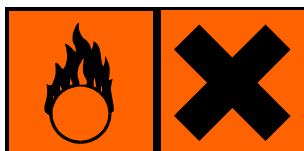
**Human health hazards** : Irritating to eyes. May cause sensitisation by skin contact.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard symbol or symbols** :



**Date of issue / Date of revision** : 26 July 2011

1/13

<b>AGOMET HARDENER POWDER</b>				<b>2/13</b>
<b>Date of printing</b>	: 26 July 2011	<b>MSDS no.</b>	: 00048885	
<b>Date of issue</b>	: <b>26 July 2011</b>	<b>Version</b>	: 2	

## SECTION 2: Hazards identification

<b>Indication of danger</b>	: Oxidising, Irritant
<b>Risk phrases</b>	: R7- May cause fire. R36- Irritating to eyes. R43- May cause sensitisation by skin contact.
<b>Safety phrases</b>	: S3/7- Keep container tightly closed in a cool place. S14- Keep away from reducing agents. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S50- Do not mix with reducing agents.
<b>Hazardous ingredients</b>	: dibenzoyl peroxide
<b>Supplemental label elements</b>	: Not applicable.
<b>Special packaging requirements</b>	
<b>Containers to be fitted with child-resistant fastenings</b>	: Not applicable.
<b>Tactile warning of danger</b>	: Not applicable.

### 2.3 Other hazards

<b>Other hazards which do not result in classification</b>	: Not available.
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## SECTION 3: Composition/information on ingredients

**Substance/mixture** : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
dibenzoyl peroxide	CAS: 94-36-0	30 - 60	E; R3 O; R7 Xi; R36 R43  <b>See section 16 for the full text of the R-phrases declared above</b>	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317  <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

**AGOMET HARDENER POWDER**

**3/13**

**Date of printing** : 26 July 2011 **MSDS no.** : 00048885  
**Date of issue** : 26 July 2011 **Version** : 2

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Potential acute health effects

- Eye contact** : Irritating to eyes.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause skin irritation. May cause sensitisation by skin contact.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours.

**AGOMET HARDENER POWDER**

4/13

**Date of printing** : 26 July 2011 **MSDS no.** : 00048885  
**Date of issue** : 26 July 2011 **Version** : 2

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**5.2 Special hazards arising from the substance or mixture**

**Hazards from the substance or mixture** : May cause fire. This material increases the risk of fire and may aid combustion.

**Hazardous thermal decomposition products** : No specific data.

**5.3 Advice for firefighters**

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

**6.2 Environmental precautions**

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**6.3 Methods and materials for containment and cleaning up**

**Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

**Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

**6.4 Reference to other sections**

: See Section 1 for emergency contact information.  
 See Section 8 for information on appropriate personal protective equipment.  
 See Section 13 for additional waste treatment information.

**AGOMET HARDENER POWDER**

5/13

<b>Date of printing</b>	: 26 July 2011	<b>MSDS no.</b>	: 00048885
<b>Date of issue</b>	: 26 July 2011	<b>Version</b>	: 2

**SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**7.1 Precautions for safe handling**

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from combustible material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities**

- : Store between the following temperatures: 6 to 18°C (42.8 to 64.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Storage hazard class  
Huntsman Advanced  
Materials**

- : Storage class 5, Oxidizing substances

**7.3 Specific end use(s)**

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

**SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**8.1 Control parameters**

**Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring procedures**

- : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Derived effect levels**

No DELs available.

**Predicted effect concentrations**

No PECs available.

**Date of issue / Date of revision** : 26 July 2011

5/13

<b>Date of printing</b>	: 26 July 2011	<b>MSDS no.</b>	: 00048885
<b>Date of issue</b>	: 26 July 2011	<b>Version</b>	: 2

**SECTION 8: Exposure controls/personal protection**

**8.2 Exposure controls**

**Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Material of gloves for long term application (BTT>480min):** : Ethyl Vinyl Alcohol Laminate (EVAL), butyl rubber

**Material of gloves for short term/splash application (10min<BTT<480min):** : nitrile rubber  
(BTT = Break Through Time)

Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at [www.gisbau.de](http://www.gisbau.de).

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**AGOMET HARDENER POWDER****7/13**

**Date of printing** : 26 July 2011 **MSDS no.** : 00048885  
**Date of issue** : 26 July 2011 **Version** : 2

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**Appearance

**Physical state** : Solid.  
**Colour** : White.  
**Odour** : Slight  
**Odour threshold** : Not available.  
**pH** : Not available.  
**Melting point/freezing point** : >40°C  
**Initial boiling point and boiling range** : Not available.  
**Flash point** : Not available.  
**Evaporation rate** : Not available.  
**Flammability (solid, gas)** : Not available.  
**Burning time** : Not available.  
**Burning rate** : Not available.  
**Upper/lower flammability or explosive limits** : Not available.  
**Vapour pressure** : Not available.  
**Vapour density** : Not available.  
**Relative density** : Not available.  
**Solubility(ies)**  
**Water solubility** :  
20 deg C  
Insoluble  
**Partition coefficient: n-octanol/water** : Not available.  
**Auto-ignition temperature** : >380°C  
**Decomposition temperature** : >60°C  
**Viscosity** : Not available.  
**Explosive properties** : Not available.  
**Oxidising properties** : Not available.

**9.2 Other information**

**SADT** : >55°C  
**SADT** : > 55 deg C  
  
**Density** : 1.23 g/cm<sup>3</sup> [20°C (68°F)]

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Hazardous reactions or instability may occur under certain conditions of storage or use.  
Conditions may include the following:  
contact with combustible materials  
Reactions may include the following:  
risk of causing or intensifying fire

**Date of issue / Date of revision** : 26 July 2011

**7/13**

**AGOMET HARDENER POWDER**

8/13

**Date of printing** : 26 July 2011 **MSDS no.** : 00048885  
**Date of issue** : 26 July 2011 **Version** : 2

**SECTION 10: Stability and reactivity**

Reacts violently in contact with acids, amines, polymerization accelerators and easily oxidized materials

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : Reactive or incompatible with the following materials:  
 combustible materials  
 reducing materials

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

Acute toxicity

Product/ingredient name	Endpoint	Species	Result	Exposure
AGOMET® HARDENER POWDER	LC50 Inhalation Dusts and mists	Rat	>24 mg/L	4 hours
dibenzoyl peroxide	LD50 Oral	Rat	2000 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>24.3 mg/L	4 hours

Irritation/Corrosion

**Conclusion/Summary** : Not available.

Sensitiser

Product/ingredient name	Test	Route of exposure	Species	Result
AGOMET® HARDENER POWDER	-	skin	Guinea pig	Sensitising

**Conclusion/Summary** : Not available.

Mutagenicity

**Conclusion/Summary** : Not available.

Carcinogenicity

Reproductive toxicity

Teratogenicity

**Information on the likely routes of exposure** : Not available.

Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : May cause skin irritation. May cause sensitisation by skin contact.  
**Eye contact** : Irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : No specific data.  
**Ingestion** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness



**AGOMET HARDENER POWDER**

**9/13**

**Date of printing** : 26 July 2011 **MSDS no.** : 00048885  
**Date of issue** : 26 July 2011 **Version** : 2

**SECTION 11: Toxicological information**

**Eye contact** : Adverse symptoms may include the following:  
 irritation  
 watering  
 redness

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**12.2 Persistence and degradability**

**12.3 Bioaccumulative potential**

Not available.

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

**12.7 Other ecological information**

**AGOMET HARDENER POWDER**

10/13

**Date of printing** : 26 July 2011 **MSDS no.** : 00048885  
**Date of issue** : 26 July 2011 **Version** : 2

**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**13.1 Waste treatment methods**

Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

European waste catalogue (EWC)

Waste code	Waste designation
	08 04 02 waste adhesives and sealants free of halogenated solvents

Packaging




**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

**14.1 UN number**      **14.2 UN proper shipping name**

**ADR/RID** UN3106      ORGANIC PEROXIDE TYPE D, SOLID DIBENZOYL PEROXIDE  
**ADN/ADNR** not available      not available  
**IMDG** UN3106      ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)  
**IATA** UN3106      ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

	ADR/RID	ADN/ADNR	IMDG	IATA
<b>14.3 Transport hazard class(es)</b>	5.2 		5.2 	5.2 
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.		No.	No.
<b>14.6 Special precautions for user</b>	Not available.		Not available.	Not available.

**Date of issue / Date of revision** : 26 July 2011

10/13

<b>AGOMET HARDENER POWDER</b>				<b>11/13</b>
<b>Date of printing</b>	: 26 July 2011	<b>MSDS no.</b>	: 00048885	
<b>Date of issue</b>	: 26 July 2011	<b>Version</b>	: 2	

### SECTION 14: Transport information

<b>Additional information</b>	<b>Special provisions</b> 122 274  <b>Tunnel code</b> D	<b>Emergency schedules (EmS)</b> F-J, S-R	<b>Passenger and Cargo Aircraft</b> Quantity limitation: 5 kg Packaging instructions: 570 <b>Cargo Aircraft Only</b> Quantity limitation: 10 kg Packaging instructions: 570  <b>Remarks</b> Yes
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**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable.

### SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Other EU regulations**

- Europe inventory** : All components are listed or exempted.
- Black List Chemicals** : Not listed
- Priority List Chemicals** : Not listed
- Integrated pollution prevention and control list (IPPC) - Air** : Not listed
- Integrated pollution prevention and control list (IPPC) - Water** : Not listed

**National regulations**

**References** : The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.

**International regulations**

- Chemical Weapons Convention List Schedule I Chemicals** : Not listed
- Chemical Weapons Convention List Schedule II Chemicals** : Not listed

<b>AGOMET HARDENER POWDER</b>				<b>12/13</b>
<b>Date of printing</b>	: 26 July 2011	<b>MSDS no.</b>	: 00048885	
<b>Date of issue</b>	: 26 July 2011	<b>Version</b>	: 2	

## SECTION 15: Regulatory information

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Org. Perox. D, H242  
 Eye Irrit. 2, H319  
 Skin Sens. 1, H317

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Org. Perox. D, H242 Eye Irrit. 2, H319 Skin Sens. 1, H317	Expert judgment Expert judgment Expert judgment

**Full text of abbreviated H statements** : H241 Heating may cause a fire or explosion.  
 H242 Heating may cause a fire.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

**Full text of classifications [CLP/GHS]** : Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
 Org. Perox. B, H241 ORGANIC PEROXIDES - Type B  
 Org. Perox. D, H242 ORGANIC PEROXIDES - Type D  
 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

**Full text of abbreviated R phrases** : R3- Extreme risk of explosion by shock, friction, fire or other sources of ignition.  
 R7- May cause fire.  
 R36- Irritating to eyes.  
 R43- May cause sensitisation by skin contact.

**Full text of classifications [DSD/DPD]** : E - Explosive  
 O - Oxidising  
 Xi - Irritant

**MSDS no.** : 00048885  
**Date of printing** : 26 July 2011  
**Date of issue/ Date of revision** : 26 July 2011  
**Date of previous issue** : 7/4/2011.  
**Version** : 2

### Notice to reader

<b>AGOMET HARDENER POWDER</b>		<b>13/13</b>	
<b>Date of printing</b>	: 26 July 2011	<b>MSDS no.</b>	: 00048885
<b>Date of issue</b>	: 26 July 2011	<b>Version</b>	: 2

## **SECTION 16: Other information**

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