

	PANEL STONE Code: AX0005015	
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Version: 1 Date of compilation: 11/12/2012

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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	<p><u>PRODUCT IDENTIFIER:</u> PANEL STONE Code: AX0005015</p>
1.2	<p><u>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> [] Industrial [X] Professional [X] Consumers Paint. <u>Uses advised against:</u> This product is not recommended for any use or sector of use industrial, professional or consume other than those previously listed as 'Intended or identified uses'.</p>
1.3	<p><u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> MONTANA AIR, S.L. Pol. Ind. Clot del Tufau, Nau 4 - E-08295 Sant Vicenç de Castellat (Barcelona) Phone: +34 93 8332787 - Fax: +34 93 8330875 <u>E-mail address of the person responsible for the safety data sheet:</u> e-mail: msds@montanacolors.com</p>
1.4	<p><u>EMERGENCY TELEPHONE NUMBER:</u> +34 93 8332787 (9:00-17:00 h.) (working hours)</p>

SECTION 2 : HAZARDS IDENTIFICATION

2.1	<p><u>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</u> <u>Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):</u> F+:R12</p>
2.2	<p><u>LABEL ELEMENTS:</u> F+</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;">    </div> <div> <p>This product is labelled as EXTREMELY FLAMMABLE in accordance with Directive 67/548/EEC~2009/2/EC and 1999/45/EC~2006/8/EC</p> </div> </div> <p><u>R-phrases:</u> R12 Extremely flammable.</p> <p><u>S-phrases:</u> S23 Do not breathe vapour, spray. S24/25 Avoid contact with skin and eyes. S29 Do not empty into drains. S51 Use only in well-ventilated areas.</p> <p><u>Supplementary statements:</u> P96 Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. P97 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.</p> <p><u>Dangerous ingredients:</u> None in a percentage equal to or higher than the limit for the name.</p>
2.3	<p><u>OTHER HAZARDS:</u> Not available.</p>



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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:
Not applicable.

3.2 MIXTURES:
This product is a mixture.

Chemical description:
Aerosol.

Dangerous ingredients:

Substances taking part in a percentage higher than the exemption limit:

<p>25 < 50 % <input type="checkbox"/> <input type="checkbox"/></p>	<p>Dimethyl ether CAS: 115-10-6 , EC: 204-065-8 DSD: F+:R12 CLP: Flam. Gas 1:H220 Press. Gas.:H280</p>	<p>REACH: 01-2119472128-37</p>	<p>Index No. 603-019-00-8 < ATP12 < REACH</p>
<p>10 < 25 % <input type="checkbox"/> <input type="checkbox"/></p>	<p>Ethyl alcohol CAS: 64-17-5 , EC: 200-578-6 DSD: F:R11 CLP: Flam. Liq. 2:H225 Eye Irrit. 2:H319</p>	<p>REACH: 01-2119457610-43</p>	<p>Index No. 603-002-00-5 < ATP12 < REACH</p>
<p>2,5 < 10 % <input type="checkbox"/></p>	<p>Isopropyl alcohol CAS: 67-63-0 , EC: 200-661-7 DSD: F:R11 Xi:R36 R67 CLP: Flam. Liq. 2:H225 Eye Irrit. 2:H319 STOT SE (narco) 3:H336</p>	<p>REACH: 01-2119457558-25</p>	<p>Index No. 603-117-00-0 < ATP30 < REACH / ATP01</p>

For more information, see sections 8, 11, 12 and 16.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None



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SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

4.2



When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u>	Normally does not produce symptoms.	Should there be any symptoms, transfer the person affected to the open air.
<u>Skin:</u>	In case of prolonged contact, the skin may become dry.	Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.
<u>Eyes:</u>	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. Call a physician immediately.
<u>Ingestion:</u>	If swallowed in high doses, may cause gastrointestinal disturbances.	If swallowed, seek immediate medical attention. Do not induce vomiting. Keep the patient at rest.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Not available.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Decomposes when heated intensely. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 ADVICE FOR FIREFIGHTERS:

- Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. The standard EN469 provides a basic level of protection for chemical incidents.
- Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours.

6.2 ENVIRONMENTAL PRECAUTIONS:

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Avoid use of solvents. Keep the remains in a closed container.

6.4 REFERENCE TO OTHER SECTIONS:

- For contact information in case of emergency, see section 1.
- For information on safe handling, see section 7.
- For exposure controls and personal protection measures, see section 8.
- For subsequent waste disposal, follow the recommendations in section 13.



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SECTION 7 : HANDLING AND STORAGE

7.1	<p><u>PRECAUTIONS FOR SAFE HANDLING:</u> Comply with the existing legislation on health and safety at work.</p> <p><u>General recommendations:</u> Avoid any type of leakage or escape.</p> <p><u>Recommendations for the prevention of fire and explosion risks:</u> Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">- Flash point</td> <td style="width: 10%;">:</td> <td style="width: 10%;">-37. °C</td> <td style="width: 30%;"></td> </tr> <tr> <td>- Autoignition temperature</td> <td>:</td> <td>266. °C</td> <td></td> </tr> <tr> <td>- Upper/lower flammability or explosive limits</td> <td>:</td> <td>3.2 - 24.2</td> <td>% Volume 25°C</td> </tr> </table> <p><u>Recommendations for the prevention of toxicological risks:</u> Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. Avoid applying the product directly to people, animals, plants or foodstuffs. For exposure controls and personal protection measures, see section 8.</p> <p><u>Recommendations for the prevention of environmental contamination:</u> It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.</p>	- Flash point	:	-37. °C		- Autoignition temperature	:	266. °C		- Upper/lower flammability or explosive limits	:	3.2 - 24.2	% Volume 25°C
- Flash point	:	-37. °C											
- Autoignition temperature	:	266. °C											
- Upper/lower flammability or explosive limits	:	3.2 - 24.2	% Volume 25°C										
7.2	<p><u>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:</u> Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. For more information, see section 10.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">Class of store</td> <td style="width: 10%;">:</td> <td style="width: 30%;">According to current legislation.</td> <td style="width: 20%;"></td> </tr> <tr> <td>Maximum storage period</td> <td>:</td> <td>24. months</td> <td></td> </tr> <tr> <td>Temperature interval</td> <td>:</td> <td>min: 5. °C, max: 50. °C</td> <td></td> </tr> </table> <p><u>Incompatible materials:</u> Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.</p> <p><u>Type of packaging:</u> According to current legislation.</p> <p><u>Limit quantity (Seveso III):</u> Directive 96/82/EC~2003/105/EC: Lower threshold: 50 tons , Upper threshold: 200 tons</p>	Class of store	:	According to current legislation.		Maximum storage period	:	24. months		Temperature interval	:	min: 5. °C, max: 50. °C	
Class of store	:	According to current legislation.											
Maximum storage period	:	24. months											
Temperature interval	:	min: 5. °C, max: 50. °C											
7.3	<p><u>SPECIFIC END USES:</u> For the use of this product do not exist particular recommendations apart from that already indicated.</p>												



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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **CONTROL PARAMETERS:**

Occupational Exposure Limit Values (TLV)

AGCIH 2010	TLV-TWA		TLV-STEL		Recommended	Year
	ppm	mg/m3	ppm	mg/m3		
Dimethyl ether	1000.	1920.				
Ethyl alcohol	1000.	1880.			A4	1996
Isopropyl alcohol	200.	491.	400.	982.	A4	2003

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.
A4 - Non classified as carcinogenic in humans.

Biological Limit Values:
Not available

Derived no-effect level (DNEL) for general population:
Not available

Predicted no-effect concentration (PNEC):
Not available

8.2 **EXPOSURE CONTROLS:**

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC-96/58/EC:
Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system:
Avoid the inhalation of vapours.
- **Mask:**
Suitable combined filter mask for gases, vapours and particles (EN141/EN143). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers.

Protection of eyes and face:
Install emergency eye baths close to the working area.
- **Goggles:**
Safety goggles with suitable lateral protection (EN166).
- **Face shield:** No.

Protection of hands and skin:
Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.
- **Gloves:**
Gloves resistant against chemicals (EN374). The gloves should be immediately replaced when any sign of degradation is noted.
- **Boots:** No.
- **Apron:** No.
- **Clothing:** Advisable.

ENVIRONMENTAL EXPOSURE CONTROLS:
Avoid any spillage in the environment. Avoid any release into the atmosphere.
Spills on the soil: Prevent contamination of soil.
Spills in water: Do not allow to escape into drains, sewers or water courses.
Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. When possible, avoid solvent release to the atmosphere; do not pulverize more than is strictly necessary.
VOC (industrial installations): If this product is used in an industrial installation, it must be verified if it is applicable the Directive 1999/13/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: Solvents : 62.7% Weight , VOC (supply) : 62.7% Weight , VOC : 33.0% C (expressed as carbon) , Molecular weight (average) : 47.2 , Number C atoms (average) : 2.1.





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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state : Aerosol.
- Odour : Characteristic
- Odour threshold : Not available

pH-value

- pH : Not available

Change of state

- Melting point : Not applicable
- Initial boiling point : Not applicable

Density

- Relative density : 0.816 at 20/4°C Relative water

Stability

- Decomposition temperature : Not applicable

Viscosity:

- Viscosity (flow time) : Not applicable

Volatility:

- Vapour pressure : Not available

Solubility(ies)

- Solubility in water: : Not miscible
- Solubility in oils and fats: : Not applicable
- Partition coefficient: n-octanol/water : Not applicable

Flammability:

- Flash point : -37. °C
- Upper/lower flammability or explosive limits : 3.2 - 24.2 % Volume 25°C
- Autoignition temperature : 266. °C

Explosive properties:

Not applicable.

Oxidizing properties:

Not applicable.

9.2 OTHER INFORMATION:

- Solids : 17.6 % Weight
- VOC (supply) : 62.7 % Weight
- VOC (supply) : 511.6 g/l

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.



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SECTION 10 : STABILITY AND REACTIVITY

- 10.1 REACTIVITY:
Not available.
- 10.2 CHEMICAL STABILITY:
Stable under recommended storage and handling conditions.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:
Possible dangerous reaction with oxidizing agents, acids.
- 10.4 CONDITIONS TO AVOID:
 - Heat: Keep away from sources of heat.
 - Light: Avoid direct contact with sunlight.
 - Air: Not applicable.
 - Pressure: Not applicable.
 - Shock: Not applicable.
- 10.5 INCOMPATIBLE MATERIALS:
Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:
As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

- 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:
 - Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.
 - Short-term exposure: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.
 - Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

DOSE AND LETHAL CONCENTRATIONS
for individual ingredients :

	<u>DL50 (OECD 401)</u> mg/kg oral	<u>DL50 (OECD 402)</u> mg/kg cutaneous	<u>CL50 (OECD 403)</u> mg/m ³ 4hours inhalation
Dimethyl ether			309018. Rat
Ethyl alcohol	7060. Rat	19440. Rabbit	> 20000. Rat
Isopropyl alcohol	5045. Rat	1088. Rat 12800. Rabbit	72600. Rat



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SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC-2006/8/EC.

12.1	<u>TOXICITY:</u> for individual ingredients :	<u>CL50</u> (OECD 203) mg/L/96hours	<u>CE50</u> (OECD 202) mg/L/48hours	<u>CE50</u> (OECD 201) mg/L/72hours
	Dimethyl ether	4100. Fishes	4400. Daphnia	
	Ethyl alcohol	8000. Fishes	9000. Daphnia	5000. Algae
	Isopropyl alcohol	9640. Fishes	13300. Daphnia	> 1000. Algae

12.2 PERSISTENCE AND DEGRADABILITY:
Not available.

12.3 BIOACCUMULATIVE POTENTIAL:
Not available.

12.4 MOBILITY IN SOIL:
Not available.

12.5 RESULTS OF PBT AND MPMBASSEMENT:
Not available.

12.6 OTHER ADVERSE EFFECTS:
Ozone depletion potential: Not available.
Photochemical ozone creation potential: Not available.
Earth global warming potential: In case of fire or incineration liberates CO2.
Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC:
 Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC-2005/20/EC, Decision 2000/532/EC:
 Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. With contaminated containers and packaging, adopt the same measures as for the product in itself. Ensure the container is completely empty before throwing it away.

Procedures for neutralising or destroying the product:
 In accordance with local regulations. Do not incinerate closed containers.



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SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: 1950

14.2 UN PROPER SHIPPING NAME:
AEROSOLS

14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:

14.4 Transport by road (ADR 2011):
Transport by rail (RID 2011):

- Class: 2
- Packaging group: -
- Classification code: 5F
- Tunnel restriction code: (D)
- Transport category: 2 , max. ADR 1.1.3.6. 333 L
- Limited quantities: LQ2 (see total exemptions ADR 3.4)
- Transport document: Consignment paper.
- Instructions in writing: ADR 5.4.3.4

Transport by sea (IMDG 35-10):

- Class: 2.1
- Packaging group: -
- Emergency Sheet (EmS): F-D,S-U
- First Aid Guide (MFAG): 620*
- Marine pollutant: No.
- Transport document: Shipping Bill of lading.

Transport by air (ICAO/IATA 2011):

- Class: 2.1
- Packaging group: -
- Transport document: Air Bill of lading.

Transport by inland waterways (ADN):

Not available.

14.5 ENVIRONMENTAL HAZARDS:
Not applicable.

14.6 SPECIAL PRECAUTIONS FOR USER:
Not available.

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 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:
It is applicable the Directive 75/324/EEC~2008/47/EC, relating to aerosol dispensers and the Directive 87/404/EEC, concerning simple pressure packages.

RESTRICTIONS:

Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:

Not applicable.

Recommended restrictions on use:

Not applicable.

OTHER REGULATIONS:

Not available

15.2 CHEMICAL SAFETY ASSESSMENT:
Not available.

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SECTION 16 : OTHER INFORMATION

16.1

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex III:

R11 Highly flammable. R12 Extremely flammable. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness.

Hazard statements according the Regulation (EC) No. 1272/2008~790/2009 (CLP), Annex III:

H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H280 Contains gas under pressure: may explode if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/esis/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2010).
- European agreement on the international carriage of dangerous goods by road, (ADR 2011).
- International Maritime Dangerous Goods Code IMDG including Amendment 35-10 (IMO, 2010).

MATERIAL SAFETY DATA SHEET REGULATIONS:

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.

HISTORY:Date of compilation:

Version: 1

11/12/2012

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.