

**Product:** **ADDITIF V 100**

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SDS No.: 901009-001 (Version 2.0 )

Date 25.11.2013 (Cancel and replace : 02.07.2008)

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Identification of the product**

Identification of the mixture: ADDITIF V 100

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

Use of the Substance/Mixture : Road additive.

**1.3. Details of the supplier of the safety data sheet**

Supplier  
CECA  
Additifs Bitumes  
Adresse postale : 89 Boulevard National  
92250 LA GARENNE-COLOMBES  
FRANCE  
Téléphone: 01 49 00 38 00  
Télécopie: 01 49 00 38 01  
<http://www.cecachemicals.com>

Email address : [ceca.fds@ceca.fr](mailto:ceca.fds@ceca.fr)**1.4. Emergency telephone number**

**+33 1 49 00 77 77**  
**European emergency phone number : 112 (24/7)**  
**National Chemical Emergency Centre Tel: 01865 407 333 (24/7)**

SUPPLIER:	Alchemy Agencies Ltd
ADDRESS	Level 2/20 Centre Street, Freemans Bay, Auckland 1010, New Zealand
TELEPHONE NUMBER	+ 64 9 377 0613
EMAIL	<a href="mailto:safety@alchemyagencies.co.nz">safety@alchemyagencies.co.nz</a>
24 HOUR EMERGENCY RESPONSE TELEPHONE (t.xom):	0800 734 607
NATION POISONS CENTRE TEL	0800 POISON (0800 764 766)

**2. HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Classification (Regulation (EC) No 1272/2008):**

This mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

**Classification according to EU Directives 1999/45/EC :**

This mixture is not classified as dangerous according to Directive 1999/45/EC.

**2.2. Label elements****Label elements (REGULATION (EC) No 1272/2008):**

This mixture does not require a label.

**2.3. Other hazards****Physical and chemical hazards:**

No special risks of flammability or explosion.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Chemical nature of the mixture<sup>1</sup>:**

Mixture based on: organic solvent

Chemical Name <sup>1</sup> & REACH Registration Number <sup>2</sup>	EC-No.	CAS-No.	Concentration	Classification Directive 67/548/EEC	Classification Regulation (EC) No 1272/2008
Dimethyl sulfoxide (01-2119431362-50)	200-664-3	67-68-5	> 80 %	–	

**Hazardous components (according to Regulation (EC) No. 1907/2006) :**

Chemical Name <sup>1</sup> & REACH Registration Number <sup>2</sup>	EC-No.	CAS-No.	Concentration	Classification Directive 67/548/EEC	Classification Regulation (EC) No 1272/2008
ethyleneglycol		107-21-1	< 5 %	Xn; R22	Acute Tox. 4 (Oral); H302 STOT RE 2; H373

<sup>1</sup>: See chapter 14 for Proper Shipping Name

<sup>2</sup>: See the text of the regulation for applicable exceptions or provisions : The transition time according to REACH Regulation, Article 23, is still not expired.

For the full text of the R, H, EUH-phrases mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

##### 4.1. & 4.2. Description of necessary first-aid measures & Most important symptoms/effects, acute and delayed:

**General advice:**

Take off immediately all contaminated clothing.

**Inhalation:**

Move to fresh air. Oxygen or artificial respiration if needed. In case of persistent problems : Consult a physician.

**Skin contact:**

Wash off immediately with soap and plenty of water.

**Eye contact:**

Wash immediately, abundantly and thoroughly with water. If irritation persists, consult an ophthalmologist.

**Ingestion:**

Consult a physician.

##### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

**Treatment:** Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

##### 5.1. Extinguishing media

**Suitable extinguishing media:**

Foam, carbon dioxide, dry powder extinguishers., Use suitable means to extinguish neighbouring fires.

**Unsuitable extinguishing media:**

Water jet.

##### 5.2. Special hazards arising from the substance or mixture:

Thermal decomposition giving flammable and toxic products :, Hydrogen sulphide, Sulphur oxides, Carbon oxides

##### 5.3. Advice for firefighters:

**Specific methods:**

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool closed containers exposed to fire with water spray.

**Special protective actions for fire-fighters:**

In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals.

#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1. Personal precautions, protective equipment and emergency procedures:

Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation. Evacuate area of all unnecessary personnel. Avoid contact with skin and eyes and inhalation of vapours.

**6.2. Environmental precautions:**

No special environmental precautions required. Prevent product from entering drains. Avoid subsoil penetration.

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

**Methods for cleaning up:**

Keep in suitable, closed containers for disposal.

**Recovery:**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Sweep up to prevent slipping hazard.

**Elimination:**

Dispose of in accordance with local regulations.

**6.4. Reference to other sections:** None.

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**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

**Technical measures/Precautions:**

Provide water supplies, ocular fountains and showers near the point of use.

**Safe handling advice:**

Smoking, eating and drinking should be prohibited in the application area.

**Hygiene measures:**

See heading 4.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

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

Keep container tightly closed in a dry and well-ventilated place.

**Packaging material:**

**Recommended:** Lined metallic drums., Plastic drum

7.3. Specific end use(s): None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure Limit Values

**Dimethyl sulfoxide**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ARKEMA		TWA	300	–	Value recommended by the "Exposure Limit Value Committee" of ARKEMA

**ethyleneglycol**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EU ELV	12 2009	STEL	40	104	Indicative
EU ELV	12 2009	TWA	20	52	Indicative
EH40 WEL	2007	STEL	40	104	Vapor.
EH40 WEL	2007	TWA	20	52	Vapor.
EH40 WEL	2007	TWA	–	10	Particulate.
EH40 WEL	2007	SKIN	–	–	Vapor. Can be absorbed through the skin.
EH40 WEL	2007	SKIN	–	–	Particulate. Can be absorbed through the skin.
ACGIH (US)	2007	Ceiling	–	100	Aerosol.

Products of decomposition:

**Hydrogen sulphide**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EH40 WEL	2007	STEL	10	14	–
EH40 WEL	2007	TWA	5	7	–
ACGIH (US)	01 2010	STEL	5	–	–
ACGIH (US)	01 2010	TWA	1	–	–

Derived No Effect Level (DNEL): No data available.

Predicted No Effect Concentration: No data available.

8.2. Exposure controls:

**Personal protective equipment:**

Respiratory protection: Avoid breathing dust or vapour., No personal respiratory protective equipment normally required.  
Hand protection: Heat insulating gloves  
  
Protective gloves complying with EN 374.  
Request information on glove permeation properties from the glove supplier., The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
Eye/face protection: Safety glasses with side-shields  
Skin and body protection: Protective suit

Environmental exposure controls: See chapter 6

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

**Appearance:**

Physical state (20°C): liquid  
Colour: dark brown  
Odour: No data available.  
Olfactory threshold: No data available.  
pH: Concentration 10 %, pH 4 - 5, In water  
Solidification point : approximately 10 °C  
Boiling point/boiling range: No data available.  
Flash point: > 100 °C (ASTM D 93)

Evaporation rate:	No data available.
Flammability (solid, gas):	
Flammability:	Not relevant
Vapour pressure:	No data available.
Vapour density:	No data available.
Density:	approximately 1,15 g/cm <sup>3</sup> , at 20 °C
Water solubility:	soluble
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	
Explosivity:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.

## 9.2. Other data:

Solubility in other solvents:	Soluble in polar solvents
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## 10. STABILITY AND REACTIVITY

### 10.1. & 10.2. Reactivity & Chemical stability:

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions:

No data available.

### 10.4. Conditions to avoid:

No data available.

### 10.5. Incompatible materials to avoid:

Powerful oxidants, strong acids and organohalogenated compounds.

### 10.6. Hazardous decomposition products:

Possible formation of : , Hydrogen sulphide, Sulphur oxides, Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

To our knowledge, no harmful effects for man under normal conditions of use. All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

### 11.1. Information on toxicological effects:

#### Acute toxicity:

Inhalation:	Based on available data, the classification criteria are not met. Slightly or not harmful by inhalation
Ingestion:	Based on available data, the classification criteria are not met. Slightly or not harmful by ingestion
Dermal:	Based on available data, the classification criteria are not met. Slightly or not harmful in contact with skin

#### Local effects ( Corrosion / Irritation / Serious eye damage ):

Skin contact:	Based on available data, the classification criteria are not met. Non irritating to skin Slightly irritating. Possibility of contact urticaria of non-allergic origin
Eye contact:	Based on available data, the classification criteria are not met. Not irritating to the eyes. Slightly irritating.

#### Respiratory or skin sensitisation:

Inhalation:	Based on available data, the classification criteria are not met. not a respiratory sensitizer
Skin contact:	Based on available data, the classification criteria are not met. Not a skin sensitizer

**CMR effects :**

Mutagenicity:	Results from tests do not lead to considering the product as genotoxic
Carcinogenicity:	Based on the available data, the substance is not suspected of having carcinogenic potential
Reproductive toxicity:	
Fertility:	Based on the available data, the substance is not suspected of having reprotoxic potential.
Foetal development:	Based on the available data, the substance is not suspected of having developmental toxicity potential.

**Specific target organ toxicity :**

**Single exposure :**

Inhalation: Based on available data, the classification criteria are not met.

**Repeated exposure:**

Based on available data, the classification criteria are not met.

**Aspiration hazard:**

Not relevant

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**12. ECOLOGICAL INFORMATION**

Ecotoxicology Assessment: According to its composition, can be considered as : Presenting no known harmful effect to the aquatic environment. Do not dispose large quantities into the natural or aquatic environment.

12.1. **Toxicity :** No data available.

12.2. **Persistence and degradability :**

Biodegradation (In water): Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

ETHYLENEGLYCOL :

Readily biodegradable  
90 - 100 % after 10 d (Method: OECD Test Guideline 301 A)

DIMETHYL SULFOXIDE :

31 % after 28 d (Method: OECD Test Guideline 301 D)  
  
Biodegradable in water treatment plant  
90,4 % after 32 d (Method: OECD Test Guideline 303 A)

12.3. **Bioaccumulative potential :**

Bioaccumulation: None of the product and/or main component quoted in section 3 and/or analogue substance/metabolite is bioaccumulable.

12.4. **Mobility in soil - Distribution among environmental compartments:** No data available.

12.5. **Results of PBT and vPvB assessment :** None.

12.6. **Other adverse effects:**

Global warming potential (GWP): Not relevant (due to the chemical structure)

Ozone depletion potential: Not relevant (due to the chemical structure)

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**13. DISPOSAL CONSIDERATIONS**

13.1. **Waste treatment:**

Disposal of product: Do not release into the natural environment or aquatic environment the pure or concentrated product. Incinerate in suitable incineration plant, observing local authority regulations.

Disposal of packaging: Must be dumped or incinerated in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

#### 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION

Safety data sheets: according to Regulation (EC) No. 1907/2006

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

UK REGULATION

Chip3: Chemical (Hazard Information and Packaging for Supply) Regulations 2002

##### 15.2. Chemical Safety Assessment: None.

##### INVENTORIES:

EINECS:	Conforms to
TSCA:	Conforms to
AICS:	Conforms to
DSL:	All components of this product are on the Canadian DSL.
ENCS (JP):	Conforms to
KECI (KR):	Conforms to
PICCS (PH):	Conforms to
IECSC (CN):	Conforms to

#### 16. OTHER INFORMATION

##### Full text of R, H, EUH-phrases referred to under sections 2 and 3

R22	Harmful if swallowed.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

##### Update:

Safety datasheet sections which have been updated:		Type:
2	2. HAZARDS IDENTIFICATION	Revisions
3	3. COMPOSITION/INFORMATION ON INGREDIENTS	Revisions
4	4. FIRST AID MEASURES	Revisions
5	5. FIREFIGHTING MEASURES	Revisions
6	6. ACCIDENTAL RELEASE MEASURES	Revisions
7	7. HANDLING AND STORAGE	Revisions
8	8. EXPOSURE CONTROLS/PERSONAL PROTECTION	Revisions
9	9. PHYSICAL AND CHEMICAL PROPERTIES	Revisions
10	10. STABILITY AND REACTIVITY	Revisions
11	11. TOXICOLOGICAL INFORMATION	Revisions
12	12. ECOLOGICAL INFORMATION	Revisions
13	13. DISPOSAL CONSIDERATIONS	Revisions
15	15. REGULATORY INFORMATION	Revisions

##### Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL)  
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)  
bw : Body weight  
food : oral feed  
dw : Dry weight  
vPvB : very Persistent and very Bioaccumulative  
PBT : Persistent, Bioaccumulative and Toxic

This safety data sheet complies with international standard ISO 11014-1. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

**NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).**

