

AFINITICA® PLASTIC PRIMER

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

1.1. Product identifier

AFINITICA® PLASTIC PRIMER

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

Intended use: Primer, containing solvents.

1.3. Details of the supplier of the safety data sheet

Afinitica Technologies S.L.
Edificio Eureka, Parc de Recerca UAB
08193 Bellaterra (Barcelona)España
Telephone number: +34 93 580 1974
info@afinitica.com

1.4. Emergency telephone number

Afinitica Technologies S.L. + 34 93 580 19 74

Afinitica Technologies (24 h) + 34 694 412 618

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation CLP (EC) No. 1272/2008

Flammable liquids (Category 2)
Skin irritation (Category 2)
Specific target organ toxicity – single exposure (Category 3), Central nervous system
Aspiration hazard (Category 1)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

2.2. Label elements

Labelling according to Regulation CLP (EC) No. 1272/2008

Pictogram



Signal Word

Danger

Hazard statements

H225

Highly flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H315

Causes skin irritation.

H336

May cause drowsiness or dizziness.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210

Keep away from heat / sparks / open flames / hot surfaces. No smoking.

P261

Avoid breathing vapours.

P273

Avoid release to the environment.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P331

Do NOT induce vomiting.

P501

Dispose of contents / container to an approved waste disposal plant.

For full text of these Hazard and Precautionary statements, see Section 16.

2.3. Other hazards

None

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

General chemical description: Primer.

Declaration of the ingredients according to Regulation CLP (EC) No. 1272/2008:

Hazardous component	CAS-No.	EC-No.	Content	Classification
Heptane	142-82-5	205-563-8	80 – 100 %	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

For full text of these Hazard, Precautionary, Risk and Safety statements, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Flush eyes with water as a precaution.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

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

See section 4.1

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon oxides.
Flash back possible over considerable distance.

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4. Further information

In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see Section 13).

6.4. Reference to other sections

For disposal see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition. No smoking. Take measures to prevent the build up of electrostatic charge.
For precautions, see Section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store under inert gas. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully released and kept upright to prevent leakage.

7.3. Specific end use(s)

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Valid for

Great Britain

Occupational Exposure Limits (OEL):

Substance	Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Remarks
	ppm	mg/m ³	ppm	mg/m ³	
Heptane 142-82-5	500	2.085	500	2.085	EH40 WEL

Derived No-Effect Level (DNEL):

Substance	Application area	Route of exposure	Health Effect	Value	Remarks
Heptane 142-82-5	Worker	Dermal	Long term exposure – systemic effects.	300 mg/kg	-
Heptane 142-82-5	Worker	Inhalation	Long term exposure – systemic effects	2085 mg/m ³	-
Heptane 142-82-5	General population	Dermal	Long term exposure – systemic effects	149 mg/kg	-
Heptane 142-82-5	General population	Inhalation	Long term exposure – systemic effects	447 mg/m ³	-
Heptane 142-82-5	General population	Oral	Long term exposure – systemic effects	149 mg/kg	-

Biological Exposure Indices:

None

8.2. Exposure controls

Engineering controls:

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

Respiratory protection:

Use only in well-ventilated areas.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area.

Filter type: A.

Hand protection:

The use of chemical resistant gloves such as Nitrile is recommended.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; ≥ 0.4 mm thickness).

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; ≥ 0.4 mm thickness).

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Wear protective glasses.

Body protection:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid Transparent, Colourless, Clear.
Odour	Aliphatic
pH	No data available/Not applicable.
Initial boiling point	96 – 98 °C (204.8 – 208.4 °F)
Flash point	-2 °C (28.4 °F).
Decomposition temperature	No data available/Not applicable.
Vapour pressure	35 mmHg, at 20 °C (68 °F).
Density	0.68 g/cm ³ .
Bulk density	No data available/Not applicable.
Viscosity	No data available/Not applicable.
Viscosity (kinematic)	No data available/Not applicable.
Explosive properties	No data available/Not applicable.
Qualitative solubility (solvent: water)	Not miscible.
Solidification temperature	No data available/Not applicable.
Melting point	No data available/Not applicable.
Flammability	No data available/Not applicable.
Auto-Ignition temperature	No data available/Not applicable.
Explosive limits	No data available/Not applicable.

Partition coefficient n-octanol/water	No data available/Not applicable.
Evaporation rate	No data available/Not applicable.
Vapour density	No data available/Not applicable.
Oxidizing properties	No data available/Not applicable.

9.2. Other safety information

No data available/Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Strong oxidizing agents.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section 10.1

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC.

Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Skin irritation:

Irritating to the skin.

Solvent may remove essential oils from the skin making it susceptible to attack from other chemicals.

Eye irritation:

May cause mild irritation to the eyes.

Oral toxicity:

Health hazard: may damage lungs if swallowed.

Inhalative toxicity:

May cause headache and dizziness.

Germ cell mutagenicity:

Substance	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Heptane 142-82-5	Negative	Bacterial reverse mutation assay (e.g. Ames test)	With and without	-	-

SECTION 12: Ecological information

12.1. Toxicity

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Ecotoxicity:

Do not empty into drains / surface water / ground water.

Very toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Substance	Value type	Value	Acute toxicity study	Exposure time	Species	Method
Heptane 142-82-5	LC50	220 – 270 mg/L	Fish	-	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Heptane 142-82-5	EC50	1.5 mg/L	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

12.2. Persistence and degradability

No data available/Not applicable.

12.3. Bioaccumulative potential

Substance	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Method
Heptane 142-82-5	4.66	-	-	-	-

12.4. Mobility in soil

Product evaporates readily

12.5. Results of PBT and vPvB assessment

No data available/Not applicable

12.6. Other adverse effects

No data available/Not applicable

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of according to regulations.

Disposal of uncleaned packages:

Dispose of in accordance with local and national regulations.

Waste code:

14 06 03 Other solvents and solvent mixtures.

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1206

ADNR: 1206

IMDG: 1206

IATA: 1206

14.2. UN proper shipping name

ADR/RID: HEPTANES (solution)

ADNR: HEPTANES

IMDG: HEPTANES (EH&S)

IATA: Heptanes (20910791)

14.3. Transport hazard class(es)

ADR/RID: 3
ADNR: 3
IMDG: 3
IATA: 3

14.4. Packaging group

ADR/RID: II
ADNR: II
IMDG: II
IATA: II

14.5. Environmental hazards

ADR/RID: Environmentally Hazardous
ADNR: Environmentally Hazardous
IMDG: Environmentally Hazardous
IATA: not applicable

14.6. Special precautions for user

No data available/Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available/Not applicable

SECTION 15: Regulatory information

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

VOC Content : 100%
(1999/13/EEC)

15.2. Chemical Safety Assessment

For this product a chemical safety assessment has not been carried out

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of abbreviations indicated by codes in this safety data sheet are as follows:

Flam. Liq.	Flammable liquids.
Skin Irrit.	Skin irritation.
STOT SE	Specific target organ toxicity – single exposure.
Asp. Tox.	Aspiration hazard.

Aquatic Acute	Acute aquatic toxicity.
Aquatic Chronic	Chronic aquatic toxicity.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
P210	Keep away from heat / sparks / open flames / hot surfaces. No smoking.
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
P331	Do NOT induce vomiting.
P501	Dispose of contents / container to an approved waste disposal plant.

Further information

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This safety data sheet was prepared in accordance with Regulation (EC) No. 1272/2008.