



ESMALTE ALIFÁTICO 2KR
Code: 0200



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product description: **ESMALTE ALIFÁTICO 2KR**
Code: 0200
- 1.2 Intended uses: Painting for metal.
- 1.3 Company: **PINTURAS ISAVAL, S.L.**
c/Velluters, Parcela 2-14 - P.I.Casanova - E-46394 - Ribarroja del Turia (Valencia)
Phone: +34 96 1640001 - Fax: +34 96 1640002 - atencionalcliente@isaval.es
- 1.4 Emergency phone number: **+34 96 1640001 (8:00-18:00 h.) (working hours)**

2. HAZARDS IDENTIFICATION

- 2.1 EC classification: R10 | Xn:R20/21 | Xi:R38
- 2.2 Adverse effects:
Flammable. Harmful by inhalation. Harmful in contact with skin. Irritating to skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Chemical description:
Mixture of pigments, resins and additives in organic solvents.
- 3.2 Dangerous ingredients:
Substances taking part in a percentage higher than the exemption limit:

25 < 50 %	Xylene (mixture of isomers)	EC 215-535-7	Index No. 601-022-00-9
<input checked="" type="checkbox"/>	R10 Xn:R20/21 Xi:R38	CAS 1330-20-7	ATP25

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

- **Pre-registration REACH:** All ingredients of this preparation, are included in the list of pre-registered substances, published by the 'European chemicals agency' (ECHA), in accordance with Article 28 of Regulation (EC) no. 1907/2006. Additional information: <http://apps.echa.europa.eu/preregistered/pre-registered-sub.aspx>

SECCIÓN 4 : PRIMEROS AUXILIOS



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

- 4.1 **By inhalation:**
Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
- 4.2 **By contact with the skin:**
Remove immediately 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.
- 4.3 **By contact with eyes:**
Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.



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4.4 By ingestion:

If swallowed, seek medical advice immediately and show container or label. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

5. FIRE-FIGHTING MEASURES

5.1 Means of extinction:

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 Specific risks:

Fire can produce a dense black smoke. 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 Fire-proof 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.

5.4 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.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.

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 Cleaning-up methods:

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a biodegradable detergent. Avoid use of solvents. Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.

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7. HANDLING AND STORAGE

7.1 Handling precautions:

Comply with the existing legislation on health and safety at work.

- **General recommendations:** Avoid any type of leakage or escape. Keep the container tightly closed.
- **Recommendations for the prevention of fire and explosion risks:** Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.
 - Flash point : 25. °C
 - Autoignition temperature : 464. °C
 - Flammability range : 1.1 - 7.1 % Volume 25°C
- **Recommendations for the prevention of toxicological risks:** Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
- **Recommendations for the prevention of environmental contamination:** It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 Storage conditions:

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. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.1.

- Class of store : According to current legislation.
- Maximum storage period : 6. months
- Temperature interval : min: 5. °C, max: 40. °C
- **Incompatible materials:** Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
- **Type of packaging:** According to current legislation.
- **Limit quantity, in accordance with Directive 96/82/EC~2003/105/EC (Seveso III):**
Lower threshold: 5000 tons , Upper threshold: 50000 tons

7.3 Specific uses:

For the use of this product do not exist particular recommendations apart from that already indicated.



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SECCIÓN 8 : CONTROLES DE EXPOSICION/PROTECCION INDIVIDUAL 98/24/CE (RD.374/2001)

8.1 Exposure Limit Values (TLV)

AGCIH 2008	TLV-TWA		TLV-STEL		Year
	ppm	mg/m3	ppm	mg/m3	
Xylene (mixture of isomers)	100.	434.	150.	651.	A4

1996

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

8.2 Occupational exposure controls, Directive 89/686/EEC:

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.

- Ventilation requirement : 1042. m3/l (maximal) Air/Preparation
to keep below the Occupational Exposure Limit of the product. Special ventilation is required.

- Protection of respiratory system:

Avoid the inhalation of vapours.

- Mask:

Mask for gases and vapours (EN141). 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. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour.

- Protection of eyes and face:

Install emergency eye baths close to the working area.

- Goggles:

Safety goggles designed to protect against liquid splashes, 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 breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.

- Boots: No.

- Apron: No.

- Clothing:

It is advisable personnel wear antistatic clothing made of natural fibre or high temperature resistant synthetic fibre.

8.3 Environmental exposure controls:

Avoid any spillage in the environment. Avoid any release into the atmosphere.





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9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state	: Liquid.	
- Colour	: White.	
- Odour	: Characteristic	
- Boiling point	: 137.2 °C at 760 mmHg	
- Flash point	: 25. °C	
- Vapour pressure	: 7. mmHg at 20°C	
- Vapour pressure	: 4.5 kPa at 50°C	
- Specific gravity	: 1.324 g/cc at 20°C	
- Solubility in water	: Not miscible	
- Viscosity	: 200. sec.FC4 20°C	
- Kinematic viscosity	: 258. mm ² /s at 40°C	
- Vapour density	: 3.67 Air = 1 at 20°C	Relative
- Heat of combustion	: 5532. Kcal/kg	
- Solids	: 51.5 % Volume	
- VOC (supply)	: 34.4 % Weight	
- VOC (supply)	: 455.5 g/l	

For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid:

Stable under recommended storage and handling conditions.

- Heat: Keep away from sources of heat.
- Light: If possible, avoid direct contact with sunlight.
- Air: Not applicable.
- Humidity: Avoid extreme humidity conditions.
- Pressure: Not applicable.
- Shock: Not applicable.

10.3 Posibilidad de reacciones peligrosas:

Possible dangerous reaction with oxidizing agents, acids.

10.3 Thermal decomposition:

As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

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.

11.1 Toxicological effects:

- 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. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage.

11.2 Dose and lethal concentrations for individual ingredients :

	DL50 Oral mg/kg	DL50 Cutaneous mg/kg	CL50 Inhalation mg/m ³ .4hours
Xylene (mixture of isomers)	4300. Rat	1700. Rabbit	22080. Rat



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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.

12.1 Ecotoxicity: for individual ingredients : Xylene (mixture of isomers)	CL50 mg/l.96hours 14. Fishes	CE50 mg/l.48hours 16. Daphnia	CE50 mg/l.72hours
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12.2 Mobility:

Not available.

- **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. Avoid any release into the atmosphere.
- **VOC (product ready for use*):**
 - It is applicable the Directive 2004/42/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents: PAINTS AND VARNISHES (defined in the Directive 2004/42/EC, Annex I.1): Emission subcategory j) Two-pack performance coating, solvent-borne. VOC (product ready for use*) (ESMALTE ALIFÁTICO 2Kr BLANCO BRILLO Cod. 0200 / ENDURECEDOR 2 K R Cod. 0048 / DISOLVENTE POLIURETANO Cod. 0091 = 100 / 25 / 5 en volumen) : 492.1 g/l*
- **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 : 34.4% Weight , VOC (supply) : 34.4% Weight , VOC : 31.0% C (expressed as carbon) , Molecular weight (average) : 106.5 , Number C atoms (average) : 8.0.

12.3 Persistence and degradability:

Not available.

12.4 Bioaccumulative potential:

Not available.

12.5 Results of PBT assesment:

Not available.

12.6 Other adverse effects:

Not available.

13. DISPOSAL CONSIDERATIONS

13.1 Handling of waste, Directive 75/442/EEC~91/156/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.

13.2 Disposal of empty containers, Directive 94/62/EC:

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations.

13.3 Procedures for neutralising or destroying the product:

Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.



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14. TRANSPORT INFORMATION

PAINT

14.1 Transport by road (ADR 2009):
Transport by rail (RID 2009):

(Special provision 640E)

Class: 3 Packaging group: III UN 1263

Classification code: F1
Tunnel restriction code: (D/E)
Transport category: 3, max. ADR 1.1.3.6. 1000 L
Limited quantities: LQ7 (see total exemptions ADR 3.4)
Transport document: Consignment paper.
Instructions in writing: ADR 5.4.3.4



14.2 Transport by sea (IMDG 34-08):

Class: 3 Packaging group: III UN 1263

Emergency Sheet (EmS): F-E,S_E
First Aid Guide (MFAG): 310,313
Marine pollutant: No.
Transport document: Shipping Bill of lading.



14.3 Transport by air (ICAO/IATA 2009):

Class: 3 Packaging group: III UN 1263

Transport document: Air Bill of lading.



15. REGULATORY INFORMATION

15.1 EC Labelling:

R10 , Xn



This product is labelled as **FLAMMABLE** and **HARMFUL** in accordance with Directive 67/548/EEC~2009/2/EC and 1999/45/EC~2006/8/EC

- R-phrases:

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

- S-phrases:

S2 Keep out of reach of children.
S37 Wear suitable gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well-ventilated areas.

- Dangerous ingredients: Xylene (mixture of isomers)

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

Not applicable.

15.3 Other EC regulations:

- It is applicable the Directive 2004/42/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents: Contains VOC max. 493. g/l - The limit value 2004/42/CE-IIA cat. j) for the product ready for use is VOC max. 500. g/l (2010).

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15.4 Other regulations:
Not available

16. OTHER INFORMATION

Text of R-phrases listed in sections 2 and 3:

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

Material Safety Data Sheet regulations:

Material Safety Data Sheet in accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH).

Main data sources:

- European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/existing-chemicals/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2008).
- European agreement on the international carriage of dangerous goods by road, (ADR 2009).
- International Maritime Dangerous Goods Code IMDG including Amendment 34-08 (IMO, 2008).

History:

Version: 8

Revision date:
18/06/2010

Date of issue:
29/06/2010

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.