



STANDARD K-1 NEGRO 300CC
Code: 50633



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

- 1.1 Product description: **STANDARD K-1 NEGRO 300CC**
Code: 50633
- 1.2 Intended uses: Adhesive.
- 1.3 Company: **KRAFFT, S.L. Unipersonal**
Carretera de Urnieta, s/nº - Apartado 14 - 20140 - Andoain (Gipuzkoa)
Phone: +34 943 410400 - Fax: +34 943 410440 - msds@krafft.es
- 1.4 Emergency phone number: **+34 943 410400 (8:00-17:00 h.) (working hours)**

2. HAZARDS IDENTIFICATION

2.1 EC classification: R42/43 | R52-53

2.2 Adverse effects:

This product may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical description:

Polyurethane sealant.

3.2 Dangerous ingredients:

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

2,5 < 10 %	Naphtha solvent (oil), light aromatic	EC 265-199-0	Index No. 649-356-00-4
R10 Xn:R65 Xi:R37 R66-R67 N:R51-53		CAS 64742-95-6	ATP30 (Note H,P)
< 2,5 %	Epoxy resin MW<700	EC 500-033-5	Index No. 603-074-00-8
Xi:R36/38 R43 N:R51-53		CAS 25068-38-6	ATP29
< 1 %	Diphenylmethane-4,4'-diisocyanate	EC 202-966-0	Index No. 615-005-00-9
Carc.Cat.3:R40 Xn:R20-48/20 Xi:R36/37/38 R42/43		CAS 101-68-8	ATP30
< 1 %	Mesitylene	EC 203-604-4	Index No. 601-025-00-5
R10 Xi:R37 N:R51-53		CAS 108-67-8	ATP29
< 0,25 %	Dibutyltin dilaurate	EC 201-039-8	Autoclassified
Muta.Cat.3:R68 Repr.Cat.2:R60 Repr.Cat.2:R61 T:R48/25 Xn:R22 Xi:R38 N:R50-53		CAS 77-58-7	

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>
- **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

4. FIRST AID MEASURES



In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 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.



STANDARD K-1 NEGRO 300CC
Code: 50633



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. In the case of skin reddening or rashes, contact a doctor immediately.

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.

4.4 By ingestion:

If swallowed, seek immediate medical attention. 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, sulfur oxides. 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:

Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.



STANDARD K-1 NEGRO 300CC
Code: 50633



7. HANDLING AND STORAGE

7.1 Handling precautions:

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

- **General recommendations:** Use in areas free from sources of ignition and away from heat or electrical sources. Do not smoke. 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.
- **Recommendations for the prevention of toxicological risks:** People with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which isocyanate containing products are used. 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:** Avoid any spillage in the environment. Pay special attention to the cleaning water. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 Storage conditions:

Prevent unauthorized access. Keep away from food, drink and animal foodstuffs. 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. Precautions should be taken to minimise exposure to atmospheric humidity or water, as carbon dioxide may be formed which, in closed containers can result in pressurisation. Care should be taken when re-opening partly used containers. Due to the sensitivity to humidity of the isocyanates, this product should be kept in the original container, or under pressure of dried nitrogen, for example. For more information, see section 10.1.

- **Class of store** : According to current legislation.
- **Maximum storage period** : 9. months
- **Temperature interval** : min: 5. °C, max: 25. °C

- **Incompatible materials:** Keep away from oxidizing agents, acids, alkalis, amines.
- **Type of packaging:** According to current legislation.
- **Limit quantity, in accordance with Directive 96/82/EC~2003/105/EC (Seveso III):**
Not applicable.

7.3 Specific uses:

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



STANDARD K-1 NEGRO 300CC
Code: 50633



8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC

8.1 Exposure Limit Values (TLV)

AGCIH 2008	TLV-TWA		TLV-STEL		Year
	ppm	mg/m3	ppm	mg/m3	
Naphtha solvent (oil), light aromatic	50.	290.			1988
Diphenylmethane-4,4'-diisocyanate	0.005	0.052			
Mesitylene	25.	123.			1987
Dibutyltin dilaurate		0.10	0.20	A4	1996
				As Sn Dermal	

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 : 193. 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:

Use respiratory protection if there is a danger of exposure to high concentrations of emanations.

- 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 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:

Suitable work clothes which avoid contact with the product should be worn.

8.3 Environmental exposure controls:

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





STANDARD K-1 NEGRO 300CC
Code: 50633



9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state	:	Paste.	
- Colour	:	Black.	
- Odour	:	Characteristic	
- Flash point	:	75. °C	Setaflash
- Specific gravity	:	1.25 g/cc at 20°C	
- Decomposition temperature	:	> 100. °C	
- Isocyanates	:	0.2 % NCO	s/total
- VOC (supply)	:	68.9 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 humidity. Precautions should be taken to minimise exposure to atmospheric humidity or water, as carbon dioxide may be formed which, in closed containers can result in pressurisation. Moisture absorption may have an effect on curing speed, and on other properties as well.
- **Pressure:** Not applicable.
- **Shock:** Not applicable.

10.2 Materials to avoid:

Possible dangerous reaction with water, oxidizing agents, acids, alkalis, amines, alcohols. Exothermic reaction with amines and alcohols. Reacts with water under evolution of CO₂.

10.3 Thermal decomposition:

As consequence of thermal decomposition, hazardous products may be produced, including isocyanates.

11. TOXICOLOGICAL INFORMATION

El disolvente Nafta CAS 64742-95-6 contiene menos de 0,1% de benceno

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.
- Based on the properties of the isocyanate content of this product and existing technical data of similar preparations, it can be concluded that respiratory exposure may cause acute irritation and/or sensitization of the respiratory system, resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability. In case of prolonged contact, the skin can dry up and irritation could appear.
- It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

11.2 Dose and lethal concentrations for individual ingredients :

	DL50 Oral mg/kg		DL50 Cutaneous mg/kg		CL50 Inhalation mg/m ³ .4hours
Naphtha solvent (oil), light aromatic	3900. Rat		3160. Rabbit		
Epoxy resin MW<700	11400. Rat		> 2000. Rabbit		
Diphenylmethane-4,4'-diisocyanate	9200. Rat		> 10000. Rabbit		369. Rat
Mesitylene	> 5000. Rat		> 2000. Rabbit		24000. Rat
Dibutyltin dilaurate	175. Rat				



STANDARD K-1 NEGRO 300CC
Code: 50633



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 :

Naphtha solvent (oil), light aromatic
Epoxy resin MW<700
Diphenylmethane-4,4'-diisocyanate
Mesitylene
Dibutyltin dilaurate

CL50

mg/l.96hours

9.2 Fishes
1.5 Fishes
> 1000. Fishes
13. Fishes
2.0 Fishes

CE50

mg/l.48hours

6.1 Daphnia
1.1 Daphnia
> 1000. Daphnia
0.66 Daphnia

CE50

mg/l.72hours

0.22 Algae
1640. Algae
3.0 Algae

12.2 Mobility:

Not available.

- **Spills on the soil:** Prevent contamination of soil.
- **Spills in water:** Harmful to aquatic organisms. May cause long-term adverse effects on the aquatic environment. 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.

12.3 Persistence and degradability:

Not available.

12.4 Bioaccumulative potential:

Not available.

12.5 Results of PBT and mPmB 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~2004/12/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:

Authorised landfill in accordance with local regulations.



STANDARD K-1 NEGRO 300CC
Code: 50633



14. TRANSPORT INFORMATION

14.1 Transport by road (ADR 2009):		
Transport by rail (RID 2009):	:	Free
14.2 Transport by sea (IMDG 34-08):	:	Free
14.3 Transport by air (ICAO/IATA 2009):	:	Free

15. REGULATORY INFORMATION

15.1 EC Labelling:

Xn



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

R42/43 May cause sensitization by inhalation and skin contact. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S2 Keep out of reach of children. S24/25 Avoid contact with skin and eyes. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S51 Use only in well-ventilated areas. P91 Contains isocyanates. See information supplied by the manufacturer. P92 Contains epoxy constituents. See information supplied by the manufacturer.

- Dangerous ingredients: Epoxy resin MW<700

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:

Not applicable

15.4 Other regulations:

Not available



STANDARD K-1 NEGRO 300CC
Code: 50633



16. OTHER INFORMATION

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

R10 Flammable. R20 Harmful by inhalation. R22 Harmful if swallowed. R37 Irritating to respiratory system. R38 Irritating to skin. R40 Limited evidence of a carcinogenic effect. R43 May cause sensitization by skin contact. R60 May impair fertility. R61 May cause harm to the unborn child. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. R68 Possible risks of irreversible effects. R36/38 Irritating to eyes and skin. R36/37/38 Irritating to eyes, respiratory system and skin. R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R42/43 May cause sensitization by inhalation and skin contact.

Text of Notes listed in section 3:

Note H : The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown.

Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1% w/w benzene (EC No. 200-753-7).

Indications for preparations containing isocyanates:

Ready-to-use preparations containing isocyanates may have an irritant effect on mucous membranes -especially on breathing organs- and cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling preparations containing isocyanates all precautions required for solvent-containing preparations must be followed. Vapour and spray mist in particular should not be inhaled. Allergics and asthmatics, as well as people prone to respiratory ailments should not work with isocyanate-containing preparations.

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).
- Riesgos y Patologia por Isocianatos, G.Alomar (INSHT, DT.54.89, 1989).

History:

Version:

5

Revision date:

24/11/2010

Date of issue:

24/11/2010

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.