




**DYNAPOK ALQUITRAN EPOXI -A-
07850 (A)**



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

- 1.1 Product identifier:** DYNAPOK ALQUITRAN EPOXI -A-07850 (A)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Industrial paint. For professional use only.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:** INDUSTRIAS JUNO, S.A.
Bº URIOSTE 64
48530 ORTUUELLA - VIZCAYA - ESPAÑA
Phone.: +34 946 353 143 - Fax: +34 946 641 753
pinturasmarina@juno.es
www.juno.es
- 1.4 Emergency telephone number:** +34 946 353 143 (8:00 -15:00)

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
Directive 67/548/EC and Directive 1999/45/EC:
This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).
Carc. Cat 2: R45 - May cause cancer (Category 2)
Xi: R36/38 - Irritating to eyes and skin, R43 - May cause sensitisation by skin contact
Xn: R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
R10 - Flammable
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- 2.2 Label elements:**
Directive 67/548/EC and Directive 1999/45/EC:
In accordance with the legislation, the elements on the label are as follows:
- T

Toxic
- R Phrases:**
R10: Flammable
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed
R36/38: Irritating to eyes and skin
R43: May cause sensitisation by skin contact
R45: May cause cancer (Category 2)
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- S Phrases:**
S23: Do not breathe vapour and spray
S24: Avoid contact with skin
S36/37: Wear suitable protective clothing and gloves
S38: In case of insufficient ventilation, wear suitable respiratory equipment
S43: In case of fire, use polyvalent powder ABC
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
S53: Avoid exposure - obtain special instructions before use
S61: Avoid release to the environment Refer to special instructions/safety data sheets
- Supplementary information:**
P92: Contains epoxidic compounds-Read the information provided by the manufacturer
P95: For professional use only: "Warning -avoid exposure-. Obtain special instructions before use"
- Substances that contribute to the classification:**
Xylene (mixture of isomers); Bisphenol A diglycidyl ether resin; Anthracene oil; Pitch, coal tar, high-temp
- 2.3 Other hazards:**
Non-applicable

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Mixture composed of pigments and resins

Components:

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 65996-93-2 EC: 266-028-2 Index: 648-055-00-5 REACH:01-2119541809-29-XXXX	Pitch, coal tar, high-temp ATP CLP00	10 - <25 %
	Directive 67/548/EC Carc. Cat 2: R45	
	Regulation 1272/2008 Carc. 1B: H350 - Danger	
CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH:01-2119488216-32-XXXX	Xylene (mixture of isomers) ATP CLP00	10 - <25 %
	Directive 67/548/EC Xi: R38; Xn: R20/21; R10	
	Regulation 1272/2008 Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Attention	
CAS: 25068-38-6 EC: 500-033-5 Index: 603-074-00-8 REACH:01-2119456619-26-XXXX	Bisphenol A diglycidyl ether resin ATP CLP00	10 - <25 %
	Directive 67/548/EC N: R51/53; Xi: R36/38, R43	
	Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Attention	
CAS: 90640-84-9 EC: 292-605-3 Index: 648-098-00-X REACH:01-2119548393-35-XXXX	Creosote oil, acenaphthene fraction ATP ATP01	1 - <10 %
	Directive 67/548/EC Carc. Cat 2: R45	
	Regulation 1272/2008 Carc. 1B: H350 - Danger	
CAS: 108-10-1 EC: 203-550-1 Index: 606-004-00-4 REACH:01-2119473980-30-XXXX	2-methyl-4-pentanone ATP CLP00	1 - <10 %
	Directive 67/548/EC F: R11; Xi: R36/37; Xn: R20; R66	
	Regulation 1272/2008 Acute Tox. 4: H332; Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H335 - Danger	
CAS: 71-36-3 EC: 200-751-6 Index: 603-004-00-6 REACH:01-2119484630-35-XXXX	1-butanol ATP CLP00	1 - <10 %
	Directive 67/548/EC Xi: R37/38, R41; Xn: R22; R10; R67	
	Regulation 1272/2008 Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger	
CAS: 90640-80-5 EC: 292-602-7 Index: 648-079-00-6 REACH:01-2119539475-32-XXXX	Anthracene oil ATP CLP00	1 - <10 %
	Directive 67/548/EC Repr. Cat 3: R62, R63; Xi: R38, R43; R52/53	
	Regulation 1272/2008 Aquatic Chronic 3: H412; Repr. 2: H361; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Attention	
CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH:01-2119489370-35-XXXX	Ethylbenzene ATP CLP00	<0,5 %
	Directive 67/548/EC F: R11; Xn: R20	
	Regulation 1272/2008 Acute Tox. 4: H332; Flam. Liq. 2: H225 - Danger	

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters, ...), seek medical advice with this Security Data Sheet

By eye contact:

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

By consumption:

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

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SECTION 4: FIRST AID MEASURES (continue)

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive subproducts are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertizing agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Avoid projections and pulverisations. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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SECTION 7: HANDLING AND STORAGE (continue)

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

- Minimum Temp.: 5 °C
- Maximum Temp.: 30 °C
- Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Identification	Environmental limits		
	IOELV (8h)	50 ppm	221 mg/m ³
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m ³
	Year	2012	
	IOELV (8h)	20 ppm	83 mg/m ³
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	IOELV (STEL)	50 ppm	208 mg/m ³
	Year	2012	
	IOELV (8h)	100 ppm	442 mg/m ³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	IOELV (STEL)	200 ppm	884 mg/m ³
	Year	2012	

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Pitch, coal tar, high-temp CAS: 65996-93-2 EC: 266-028-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,00598 mg/m ³	0,000016 mg/m ³
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m ³	Non-applicable
Bisphenol A diglycidyl ether resin CAS: 25068-38-6 EC: 500-033-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	8,33 mg/kg	Non-applicable	8,33 mg/kg	Non-applicable
	Inhalation	12,25 mg/m ³	Non-applicable	12,25 mg/m ³	Non-applicable
Creosote oil, acenaphthene fraction CAS: 90640-84-9 EC: 292-605-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,06 mg/kg	Non-applicable
	Inhalation	51 mg/m ³	12 mg/m ³	1,2 mg/m ³	1,9 mg/m ³
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	11,8 mg/kg	Non-applicable
	Inhalation	208 mg/m ³	208 mg/m ³	83 mg/m ³	83 mg/m ³
1-butanol CAS: 71-36-3 EC: 200-751-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	310 mg/m ³
Anthracene oil CAS: 90640-80-5 EC: 292-602-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,63 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,28 mg/m ³	1,9 mg/m ³

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	Inhalation	Non-applicable	293 mg/m ³	77 mg/m ³	Non-applicable

DNEL (Population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,8 mg/m ³	Non-applicable
Bisphenol A diglycidyl ether resin CAS: 25068-38-6 EC: 500-033-5	Oral	0,75 mg/kg	Non-applicable	0,75 mg/kg	Non-applicable
	Dermal	3,571 mg/kg	Non-applicable	3,571 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	Oral	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,7 mg/m ³	Non-applicable
1-butanol CAS: 71-36-3 EC: 200-751-6	Oral	Non-applicable	Non-applicable	3,125 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	55 mg/m ³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	15 mg/m ³	Non-applicable

PNEC:

Identification				
Pitch, coal tar, high-temp CAS: 65996-93-2 EC: 266-028-2	STP	Non-applicable	Fresh water	0,00005 mg/L
	Soil	0,047 mg/kg	Marine water	0,000022 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	0,913 mg/kg
	Oral	0,2 g/kg	Sediment (Marine water)	0,398 mg/kg
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	STP	6,58 mg/L	Fresh water	0,327 mg/L
	Soil	2,31 mg/kg	Marine water	0,327 mg/L
	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
Bisphenol A diglycidyl ether resin CAS: 25068-38-6 EC: 500-033-5	STP	10 mg/L	Fresh water	0,006 mg/L
	Soil	0,196 mg/kg	Marine water	0,0006 mg/L
	Intermittent	0,018 mg/L	Sediment (Fresh water)	0,996 mg/kg
	Oral	11 g/kg	Sediment (Marine water)	0,0996 mg/kg
Creosote oil, acenaphthene fraction CAS: 90640-84-9 EC: 292-605-3	STP	0,5 mg/L	Fresh water	0,0038 mg/L
	Soil	0,19 mg/kg	Marine water	0,0038 mg/L
	Intermittent	0,14 mg/L	Sediment (Fresh water)	1,6 mg/kg
	Oral	3 g/kg	Sediment (Marine water)	0,16 mg/kg
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	STP	27,5 mg/L	Fresh water	0,6 mg/L
	Soil	1,3 mg/kg	Marine water	0,06 mg/L
	Intermittent	1,5 mg/L	Sediment (Fresh water)	8,27 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,83 mg/kg
1-butanol CAS: 71-36-3 EC: 200-751-6	STP	2476 mg/L	Fresh water	0,082 mg/L
	Soil	0,015 mg/kg	Marine water	0,0082 mg/L
	Intermittent	2,25 mg/L	Sediment (Fresh water)	0,178 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0178 mg/kg
Anthracene oil CAS: 90640-80-5 EC: 292-602-7	STP	1 mg/L	Fresh water	0,0011 mg/L
	Soil	1,8 mg/kg	Marine water	0,0011 mg/L
	Intermittent	0,07 mg/L	Sediment (Fresh water)	5 mg/kg
	Oral	2 g/kg	Sediment (Marine water)	5 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)



Identification				
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	STP	9,6 mg/L	Fresh water	0,1 mg/L
	Soil	2,68 mg/kg	Marine water	0,01 mg/L
	Intermittent	0,1 mg/L	Sediment (Fresh water)	13,7 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	1,37 mg/kg

8.2 Exposure controls:



A.- General security and hygiene measures in the work place

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using individual protection equipment they should have the "CE marking" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.



B.- Respiratory protection

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	 CAT III	EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected.





C.- Specific protection for the hands

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves	 CAT III	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.



D.- Ocular and facial protection

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face mask	 CAT II	EN 166:2001 EN 167:2001 EN 168:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN 165:2005	Clean daily and disinfect periodically according to the manufacturer's instructions.

E.- Bodily protection

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	 CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 340:2003 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	 CAT III	EN 13287:2007 EN ISO 20345:2011 EN 13832-1:2006 EN ISO 20344:2011	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Volatil organic compounds:

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply):	25,4 % weight
V.O.C. density at 20 °C:	315,9 kg/m ³ (315,9 g/L)
Average carbon number:	6,78
Average molecular weight:	98,44 g/mol

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:


V.O.C. density at 20 °C:	421,67 kg/m ³ (421,67 g/L)
EUlimit for the product (Cat. A.J):	500 g/L (2010)
Components:	Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Apperance:

Physical state at 20 °C:	Liquid
Apperance:	Viscous
Color:	 Black
Odor:	Characteristic

Volatility:

Boiling point at atmospheric pressure:	144 °C
Vapour pressure at 20 °C:	1013 Pa
Vapour pressure at 50 °C:	5473 Pa (5 kPa)
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	1244 kg/m ³
Relative density at 20 °C:	1,244
Dynamic viscosity at 20 °C:	2,28 cP
Kinematic viscosity at 20 °C:	1,83 cSt
Kinematic viscosity at 40 °C:	>7 cSt
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility property:	Non-applicable *
Decomposition temperature:	Non-applicable *

Flammability:

Flash Point:	24 °C
Autoignition temperature:	343 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available

9.2 Other information:

Surface tension at 20 °C:	Non-applicable *
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*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the conditions no hazardous reactions are expected to produce a pressure or excessive temperatures.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Avoid direct impact	Not applicable

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion:

The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

C- Contact with the skin and the eyes:

Produces skin inflammation and eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

E- Sensitizing effects:

Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

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**DYNAPOK ALQUITRAN EPOXI -A-
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SECTION 11: TOXICOLOGICAL INFORMATION (continue)

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	Rat
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	LD50 oral	Non-applicable	
	LD50 dermal	Non-applicable	
	LC50 inhalation	11 mg/L (4 h)	Rat
1-butanol CAS: 71-36-3 EC: 200-751-6	LD50 oral	2292 mg/kg	Rat
	LD50 dermal	3400 mg/kg	Rabbit
	LC50 inhalation	24,66 mg/L (4 h)	Rat
Anthracene oil CAS: 90640-80-5 EC: 292-602-7	LD50 oral	4030 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	15354 mg/kg	Rabbit
	LC50 inhalation	17,2 mg/L (4 h)	Rat

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the mixture itself is not available

12.1 Toxicity:

Identification	Acute toxicity		Specie	Genus
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	LC50	13,5 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	0,6 mg/L (96 h)	Gammarus lacustris	Crustacean
	EC50	10 mg/L (72 h)	Skeletonema costatum	Alga
Bisphenol A diglycidyl ether resin CAS: 25068-38-6 EC: 500-033-5	LC50	1 - 10 mg/L (96 h)		Fish
	EC50	1 - 10 mg/L (48 h)		Crustacean
	EC50	1 - 10 mg/L (72 h)		Alga
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	LC50	900 mg/L (48 h)	Leuciscus idus	Fish
	EC50	862 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	980 mg/L (48 h)	Scenedesmus subspicatus	Alga
1-butanol CAS: 71-36-3 EC: 200-751-6	LC50	1740 mg/L (96 h)	Pimephales promelas	Fish
	EC50	1983 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	500 mg/L (96 h)	Scenedesmus subspicatus	Alga
Anthracene oil CAS: 90640-80-5 EC: 292-602-7	LC50	10 - 100 mg/L (96 h)		Fish
	EC50	10 - 100 mg/L (48 h)		Crustacean
	EC50	10 - 100 mg/L (72 h)		Alga
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LC50	42,3 mg/L (96 h)	Pimephales promelas	Fish
	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	63 mg/L (3 h)	Chlorella vulgaris	Alga

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Bisphenol A diglycidyl ether resin CAS: 25068-38-6 EC: 500-033-5	BOD5	Non-applicable	Concentration	100 mg/L
	Code	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %

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SECTION 12: ECOLOGICAL INFORMATION (continue)

Identification	Degradability		Biodegradability	
	BOD5	Code	Concentration	Period
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	2.06 g O2/g	2.16 g O2/g	100 mg/L	14 days
	0.95		% Biodegradable	84 %
1-butanol CAS: 71-36-3 EC: 200-751-6	1.71 g O2/g	2.46 g O2/g	Non-applicable	19 days
	0.69		% Biodegradable	98 %
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Non-applicable	Non-applicable	100 mg/L	14 days
			% Biodegradable	90 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
	BCF	Pow Log
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	9	2,77
		Low
Bisphenol A diglycidyl ether resin CAS: 25068-38-6 EC: 500-033-5	4	2,8
		Low
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	2	1,31
		Low
1-butanol CAS: 71-36-3 EC: 200-751-6	1	0,88
		Low
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	1	3,15
		Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
	Koc	Conclusion	Henry	Henry
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	202	Moderate	5,249E+2 Pa·m ³ /mol	Yes
		Non-applicable	Dry soil	Yes
			Moist soil	Yes
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	Non-applicable	Non-applicable	Henry	Non-applicable
			Dry soil	Non-applicable
			Moist soil	Non-applicable
1-butanol CAS: 71-36-3 EC: 200-751-6	2,44	Very High	5,39E-2 Pa·m ³ /mol	Yes
			Dry soil	Yes
			Moist soil	Yes
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	520	Moderate	7,984E+2 Pa·m ³ /mol	Yes
			Dry soil	Yes
			Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Directive 2008/98/EC)
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances	Dangerous

Waste management (disposal and evaluation):

- CONTINUED ON NEXT PAGE -



**DYNAPOK ALQUITRAN EPOXI -A-
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SECTION 13: DISPOSAL CONSIDERATIONS (continue)

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:



- | | |
|---|----------------|
| 14.1 UN number: | UN1263 |
| 14.2 UN proper shipping name: | PAINT |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | III |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Special regulations: | 163, 640E, 650 |
| Tunnel restriction code: | D/E |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | 5 L |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Non-applicable |

Transport of dangerous goods by sea:

With regard to IMDG 2011:



- | | |
|---|--------------------|
| 14.1 UN number: | UN1263 |
| 14.2 UN proper shipping name: | PAINT |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | III |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Special regulations: | 163, 223, 944, 955 |
| EmS Codes: | F-E, S-E |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | 5 L |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Non-applicable |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2013:

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**DYNAPOK ALQUITRAN EPOXI -A-
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SECTION 14: TRANSPORT INFORMATION (continue)



14.1 UN number:	UN1263
14.2 UN proper shipping name:	PAINT
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	III
14.5 Dangerous for the environment:	No
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Pitch, coal tar, high-temp ; Anthracene oil
Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 689/2008, in relation to the import and export of hazardous chemical products: Contains Creosote oil, acenaphthene fraction

Additional Labelling (Annex XVII, REACH):

Restricted to professional users

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Product classified hazardous under the CMR. Sale and distribution to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 90/394/EC Directive and later modifications.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Non-applicable

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

Modifications related to the previous security card which concerns the ways of managing risks. :

Non-applicable

Text of R-phrases considered in section 3:

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SECTION 16: OTHER INFORMATION (continue)

Directive 67/548/EC and Directive 1999/45/EC:

- R10: Flammable
- R11: Highly flammable
- R20: Harmful by inhalation
- R20/21: Harmful by inhalation and in contact with skin
- R22: Harmful if swallowed
- R36/37: Irritating to eyes and respiratory system
- R36/38: Irritating to eyes and skin
- R37/38: Irritating to respiratory system and skin
- R38: Irritating to skin
- R41: Risk of serious damage to eyes
- R43: May cause sensitisation by skin contact
- R45: May cause cancer (Category 2)
- R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R62: Possible risk of impaired fertility
- R63: Possible risk of harm to the unborn child
- R66: Repeated exposure may cause skin dryness or cracking
- R67: Vapours may cause drowsiness and dizziness

CLP Regulation (EC) n° 1272/2008:

- Acute Tox. 4: H302 - Harmful if swallowed.
- Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled
- Acute Tox. 4: H332 - Harmful if inhaled.
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
- Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
- Carc. 1B: H350 - May cause cancer
- Eye Dam. 1: H318 - Causes serious eye damage.
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
- Flam. Liq. 3: H226 - Flammable liquid and vapour.
- Repr. 2: H361 - Suspected of damaging fertility or the unborn child
- Skin Irrit. 2: H315 - Causes skin irritation.
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- STOT SE 3: H335 - May cause respiratory irritation.
- STOT SE 3: H336 - May cause drowsiness or dizziness.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

- <http://esis.jrc.ec.europa.eu>
- <http://echa.europa.eu>
- <http://eur-lex.europa.eu>

Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- CL50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol-water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -



DYNAPOK ALQUITRAN EPOXI - B-07850 (B)



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

- 1.1 Product identifier:** DYNAPOK ALQUITRAN EPOXI - B-07850 (B)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Industrial paint. For professional use only.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:** INDUSTRIAS JUNO, S.A.
Bº URIOSTE 64
48530 ORTUUELLA - VIZCAYA - ESPAÑA
Phone.: +34 946 353 143 - Fax: +34 946 641 753
pinturasmarina@juno.es
www.juno.es
- 1.4 Emergency telephone number:** +34 946 353 143 (8:00 -15:00)

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
Directive 67/548/EC and Directive 1999/45/EC:
This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).
Xi: R36/38 - Irritating to eyes and skin
Xn: R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
R10 - Flammable
- 2.2 Label elements:**
Directive 67/548/EC and Directive 1999/45/EC:
In accordance with the legislation, the elements on the label are as follows:
- Xn

Harmful
- R Phrases:**
R10: Flammable
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed
R36/38: Irritating to eyes and skin
- S Phrases:**
S23: Do not breathe vapour and spray
S24: Avoid contact with skin
S36/37: Wear suitable protective clothing and gloves
S43: In case of fire, use polyvalent powder ABC
S51: Use only in well-ventilated areas
- Supplementary information:**
P99: Contains Trientine. May cause an allergic reaction
- Substances that contribute to the classification:**
Xylene (mixture of isomers)
- 2.3 Other hazards:**
Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- Chemical description:** Mixture composed of pigments and resins
- Components:**
In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

- CONTINUED ON NEXT PAGE -



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)

Identification	Chemical name/Classification	Concentration
CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH:01-2119488216-32-XXXX	Xylene (mixture of isomers) ATP CLP00	10 - <25 %
	Directive 67/548/EC Xi: R38; Xn: R20/21; R10	
	Regulation 1272/2008 Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Attention	
CAS: 107-98-2 EC: 203-539-1 Index: 603-064-00-3 REACH:01-2119457435-35-XXXX	1-methoxy-2-propanol ATP ATP01	10 - <25 %
	Directive 67/548/EC R10; R67	
	Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336 - Attention	
CAS: 108-10-1 EC: 203-550-1 Index: 606-004-00-4 REACH:01-2119473980-30-XXXX	2-methyl-4-pentanone ATP CLP00	10 - <25 %
	Directive 67/548/EC F: R11; Xi: R36/37; Xn: R20; R66	
	Regulation 1272/2008 Acute Tox. 4: H332; Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H335 - Danger	
CAS: 90-72-2 EC: 202-013-9 Index: 603-069-00-0 REACH:01-2119560597-27-XXXX	2,4,6-tris(dimethylaminomethyl)phenol ATP CLP00	1 - <10 %
	Directive 67/548/EC Xi: R36/38; Xn: R22	
	Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Attention	
CAS: 112-24-3 EC: 203-950-6 Index: 612-059-00-5 REACH:Non-applicable	Trientine ATP CLP00	0,5 - <1 %
	Directive 67/548/EC C: R34; Xi: R43; Xn: R21; R52/53	
	Regulation 1272/2008 Acute Tox. 4: H312; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

By consumption:

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive subproducts are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

- CONTINUED ON NEXT PAGE -



DYNAPOK ALQUITRAN EPOXI - B-07850 (B)



SECTION 5: FIREFIGHTING MEASURES (continue)

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertizing agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid spillage into an aqueous medium as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into an aqueous medium notify the relevant authority.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Avoid projections and pulverisations. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C
Maximum Temp.: 30 °C
Maximum time: 24 Months

B.- General conditions for storage

- CONTINUED ON NEXT PAGE -



DYNAPOK ALQUITRAN EPOXI - B-07850 (B)



SECTION 7: HANDLING AND STORAGE (continue)

Avoid sources of heat, radiation, static electricity and contact with food

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Identification	Environmental limits		
	IOELV (8h)	IOELV (STEL)	Year
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	50 ppm	221 mg/m ³	2012
	100 ppm	442 mg/m ³	
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	100 ppm	375 mg/m ³	2012
	150 ppm	563 mg/m ³	
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	20 ppm	83 mg/m ³	2012
	50 ppm	208 mg/m ³	

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m ³	Non-applicable
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	50,6 mg/kg	Non-applicable
	Inhalation	Non-applicable	553,5 mg/m ³	369 mg/m ³	Non-applicable
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	11,8 mg/kg	Non-applicable
	Inhalation	208 mg/m ³	208 mg/m ³	83 mg/m ³	83 mg/m ³
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,31 mg/m ³	Non-applicable

DNEL (Population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,8 mg/m ³	Non-applicable
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	Oral	Non-applicable	Non-applicable	3,3 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	18,1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	43,9 mg/m ³	Non-applicable
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	Oral	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,7 mg/m ³	Non-applicable

PNEC:

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	STP	6,58 mg/L	Fresh water	0,327 mg/L	
	Soil	2,31 mg/kg	Marine water	0,327 mg/L	
	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)



Identification				
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	STP	100 mg/L	Fresh water	10 mg/L
	Soil	5,49 mg/kg	Marine water	1 mg/L
	Intermittent	100 mg/L	Sediment (Fresh water)	52,3 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	5,2 mg/kg
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	STP	27,5 mg/L	Fresh water	0,6 mg/L
	Soil	1,3 mg/kg	Marine water	0,06 mg/L
	Intermittent	1,5 mg/L	Sediment (Fresh water)	8,27 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,83 mg/kg
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	STP	0,2 mg/L	Fresh water	0,084 mg/L
	Soil	Non-applicable	Marine water	0,0084 mg/L
	Intermittent	0,84 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

8.2 Exposure controls:



A.- General security and hygiene measures in the work place

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using individual protection equipment they should have the "CE marking" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.



B.- Respiratory protection

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases, vapours and particles		EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected.





C.- Specific protection for the hands

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

D.- Ocular and facial protection

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face mask		EN 166:2001 EN 167:2001 EN 168:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN 165:2005	Clean daily and disinfect periodically according to the manufacturer's instructions.

E.- Bodily protection

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 340:2003 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN 13287:2007 EN ISO 20345:2011 EN 13832-1:2006 EN ISO 20344:2011	Replace boots at any sign of deterioration.

F.- Additional emergency measures



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DYNAPOK ALQUITRAN EPOXI - B-07850 (B)



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatil organic compounds:

With regard to Directive 1999/13/EC, this product has the following characteristics:

- V.O.C. (Supply): 50,36 % weight
- V.O.C. density at 20 °C: 489,27 kg/m³ (489,27 g/L)
- Average carbon number: 6,02
- Average molecular weight: 98,8 g/mol

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:

- V.O.C. density at 20 °C: 489,27 kg/m³ (489,27 g/L)
- EUlimit for the product (Cat. A.I): 500 g/L (2010)
- Components: Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Apperance:

- Physical state at 20 °C: Liquid
- Apperance: Viscous
- Color: Not available
- Odor: Characteristic

Volatility:

- Boiling point at atmospheric pressure: 128 °C
- Vapour pressure at 20 °C: 1143 Pa
- Vapour pressure at 50 °C: 5813 Pa (6 kPa)
- Evaporation rate at 20 °C: Non-applicable *

Product description:

- Density at 20 °C: 972 kg/m³
- Relative density at 20 °C: 0,972
- Dynamic viscosity at 20 °C: Non-applicable *
- Kinematic viscosity at 20 °C: Non-applicable *
- Kinematic viscosity at 40 °C: >7 cSt
- Concentration: Non-applicable *
- pH: Non-applicable *
- Vapour density at 20 °C: Non-applicable *
- Partition coefficient n-octanol/water 20 °C: Non-applicable *
- Solubility in water at 20 °C: Non-applicable *
- Solubility property: Non-applicable *
- Decomposition temperature: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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DYNAPOK ALQUITRAN EPOXI - B-07850 (B)



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Flammability:

Flash Point: 25 °C
Autoignition temperature: 287 °C
Lower flammability limit: Not available
Upper flammability limit: Not available

9.2 Other information:

Surface tension at 20 °C: Non-applicable *
Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the conditions no hazardous reactions are expected to produce a pressure or excessive temperatures.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Avoid direct impact	Not applicable

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion:

The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

C- Contact with the skin and the eyes:

Produces skin inflammation and eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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DYNAPOK ALQUITRAN EPOXI - B-07850 (B)



SECTION 11: TOXICOLOGICAL INFORMATION (continue)

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

E- Sensitizing effects:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensibilizing effects. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	Rat
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	LD50 oral	Non-applicable	
	LD50 dermal	Non-applicable	
	LC50 inhalation	11 mg/L (4 h)	Rat
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	LD50 oral	1200 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Trientine CAS: 112-24-3 EC: 203-950-6	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the mixture itself is not available

12.1 Toxicity:

Identification	Acute toxicity		Specie	Genus
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	LC50	13,5 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	0,6 mg/L (96 h)	Gammarus lacustris	Crustacean
	EC50	10 mg/L (72 h)	Skeletonema costatum	Alga
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	LC50	20800 mg/L (96 h)	Pimephales promelas	Fish
	EC50	23300 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1000 mg/L (168 h)	Selenastrum capricornutum	Alga
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	LC50	900 mg/L (48 h)	Leuciscus idus	Fish
	EC50	862 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	980 mg/L (48 h)	Scenedesmus subspicatus	Alga
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	LC50	345 mg/L (96 h)	QSAR	Fish
	EC50	Non-applicable		
	EC50	Non-applicable		
Trientine CAS: 112-24-3 EC: 203-950-6	LC50	495 mg/L (96 h)	Pimephales promelas	Fish
	EC50	31,1 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

12.2 Persistence and degradability:

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SECTION 12: ECOLOGICAL INFORMATION (continue)

Identification	Degradability		Biodegradability	
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	BOD5	Non-applicable	Concentration	100 mg/L
	Code	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	BOD5	2.06 g O ₂ /g	Concentration	100 mg/L
	Code	2.16 g O ₂ /g	Period	14 days
	BOD5/COD	0.95	% Biodegradable	84 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	BCF	9
	Pow Log	2,77
	Potential	Low
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	BCF	3
	Pow Log	-0,44
	Potential	Low
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	BCF	2
	Pow Log	1,31
	Potential	Low
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	BCF	3
	Pow Log	0,77
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	Koc	202	Henry	5,249E+2 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
2-methyl-4-pentanone CAS: 108-10-1 EC: 203-550-1	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	23500 N/m (25 °C)	Moist soil	Non-applicable
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	Koc	15130	Henry	9,312E-12 Pa·m ³ /mol
	Conclusion	Immobile	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
Trientine CAS: 112-24-3 EC: 203-950-6	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	43070 N/m (25 °C)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Directive 2008/98/EC)
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances	Dangerous

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

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DYNAPOK ALQUITRAN EPOXI - B-07850 (B)



SECTION 13: DISPOSAL CONSIDERATIONS (continue)

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:



- | | |
|---|----------------|
| 14.1 UN number: | UN1263 |
| 14.2 UN proper shipping name: | PAINT |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | III |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Special regulations: | 163, 640E, 650 |
| Tunnel restriction code: | D/E |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | 5 L |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Non-applicable |

Transport of dangerous goods by sea:

With regard to IMDG 2011:



- | | |
|---|--------------------|
| 14.1 UN number: | UN1263 |
| 14.2 UN proper shipping name: | PAINT |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | III |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Special regulations: | 163, 223, 944, 955 |
| EmS Codes: | F-E, S-E |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | 5 L |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Non-applicable |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2013:



- | | |
|---|----------------|
| 14.1 UN number: | UN1263 |
| 14.2 UN proper shipping name: | PAINT |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | III |
| 14.5 Dangerous for the environment: | No |
| 14.6 Special precautions for user | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Non-applicable |

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SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 689/2008, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Non-applicable

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

Modifications related to the previous security card which concerns the ways of managing risks. :

Non-applicable

Text of R-phrases considered in section 3:

Directive 67/548/EC and Directive 1999/45/EC:

- R10: Flammable
- R11: Highly flammable
- R20: Harmful by inhalation
- R20/21: Harmful by inhalation and in contact with skin
- R21: Harmful in contact with skin
- R22: Harmful if swallowed
- R34: Causes burns
- R36/37: Irritating to eyes and respiratory system
- R36/38: Irritating to eyes and skin
- R38: Irritating to skin
- R43: May cause sensitisation by skin contact
- R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R66: Repeated exposure may cause skin dryness or cracking
- R67: Vapours may cause drowsiness and dizziness

CLP Regulation (EC) n° 1272/2008:



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SECTION 16: OTHER INFORMATION (continue)

Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H312 - Harmful in contact with skin.
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled
Acute Tox. 4: H332 - Harmful if inhaled.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://esis.jrc.ec.europa.eu>
<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- CL50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol–water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -