# Safety Data Sheet TECNOCOAT CP 2049 /A GREY

Safety Data Sheet dated: 04/02/2020 - version 3



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

#### 1.1. Product identifier

Mixture identification:

Trade name: TECNOCOAT CP 2049 /A GREY

Trade code: 904TA15391 Registration Number N/A

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

Recommended use: Poliureic membrane

Uses advised against: N.A.

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

Company: TECNOPOL SISTEMAS c/Finlàndia, 33

08520 Les Franqueses del Vallès

Barcelona (Spain)
Responsable: info@tecnopol.es

# 1.4. Emergency telephone number

(National Institue of Toxicology) 0034 915 62 04 20

TECNOPOL SISTEMAS

Phone: +34 935 682 111 (office hours)

#### **SECTION 2: Hazards identification**







# 2.1. Classification of the substance or mixture

# Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3 Flammable liquid and vapour.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

Skin Sens. 1 May cause an allergic skin reaction.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

# Regulation (EC) n. 1272/2008 (CLP)

# **Pictograms and Signal Words**



Warning

#### **Hazard statements:**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

# **Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P314 Get medical advice/attention if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

# **Special Provisions:**

EUH208 Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

**EUH204** Contains isocyanates. May produce an allergic reaction.

# **Contains:**

2,4-Diisocyanatotoluene-polypropylene

glycol copolymer

o-xylene

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

#### 2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

N.A.

# 3.2. Mixtures

Mixture identification: TECNOCOAT CP 2049 /A GREY

#### Hazardous components within the meaning of the CLP regulation and related classification:

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	2,4-Diisocyanatotoluene- polypropylene glycol copolymer	CAS:37273-56-6	Eye Irrit. 2; Skin Sens. 1, H319, H317	
≥10 - <20 %	o-xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022- 00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT RE 2, H373; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412; STOT SE 3, H335	01-2119488216-32-XXXX
≥0.1 - <0.25 %	Solvent naphtha (petroleum), light arom. (*)	CAS:64742-95-6 EC:265-199-0 Index:649-356- 00-4	Flam. Liq. 3, H226; STOT SE 3, H335; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 2, H411, EUH066, DECLP(*)	
≥0.1 - <0.25 %	(R)-p-mentha-1,8-diene	CAS:5989-27-5 EC:227-813-5 Index:601-029- 00-7	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119529223-47-XXXX
≥0.05 - <0.1 %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195- 00-7	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475791-29-xxxx

#### (\*)DECLP Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008.

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 (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

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In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus.

# **SECTION 6: Accidental release measures**

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

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

# 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

#### 6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

## 6.4. Reference to other sections

See also section 8 and 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

# 7.2. Conditions for safe storage, including any incompatibilities

Store at below 20  $^{\circ}$ C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

# 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
o-xylene	National	SWEDEN		221	50	442	100		SWEDEN, Short term value, 15 minutes average value
	Nationa	FINLAND		220	50	440	100		FINLAND, hud
	National	NORWAY		108	25				NORWAY, H
	EU	NNN		221	50	442	100		Skin
	National	NORWAY		109	25	218	50		
	ACGIH	NNN			100		150		A4, BEI - URT and eye irr, CNS impair
	DFG	GERMANY	С			880	200		
	ACGIH				100		150		A4 - Not Classifiable as a Human Carcinogen; CNS impairment; eye and upper respiratory tract irritation
	Nationa	SWEDEN		221	50				
	Nationa	FRANCE		221	50	442	100		
	Nationa	SPAIN		221	50	442	100		
	Nationa	GREECE		435	100	650	150		
	Nationa	DENMARK		109	25				
	Nationa	FINLAND		220	50	440	100		
	National	GERMANY		440	100				
	National	PORTUGAL		221	50	442	100		
	Nationa	NORWAY		108	25	135	37,5		
	Nationa	BELGIUM		221	50	442	100		
	NDS	POLAND		100					
	NDSCh	POLAND				200			
	CHE	SWITZERLAND				870	200		
	NDS	NETHERLANDS		210		442			
	Nationa	CZECH REPUBLIC		200					
	Nationa	HUNGARY		221		442			
	Malaysi a OEL	MALAYSIA		434	100				
	Nationa	ESTONIA		200	50	450	100		
	Nationa	LATVIA		221	50	442	100		
	Nationa	CZECH REPUBLIC	С			400			
	Nationa	SLOVAKIA	С			442			
	Nationa	SLOVAKIA		221	50				
	Nationa	SLOVENIA		221	50	442	100		
	National	UNITED KINGDOM		220	50	441	100		
	National	BULGARIA		221,0	50	442	100		
		ROMANIA		221	50	442	100		
	TUR	TURKEY		221	50	442	100		
		LITHUANIA		221	50	442	100		
		CROATIA		221	50	442	100		
	EU			221	50	442	100	Indicative	Possibility of significant uptake through the skin (pure)

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Solvent naphtha (petroleum), light arom. (*)	EU	NNN		100	19				
(R)-p-mentha-1,8-diene	DFG	GERMANY	С			112	20		
	National	SPAIN		168	30				
	National	FINLAND		140	25	280	50		
	National	GERMANY		28	5				
	National	NORWAY		140	25	175	37,5		
	CHE	SWITZERLAND				80	14		
2-methoxy-1-methylethyl acetate	ACGIH	NNN		275,000	50,000	550,000	100,000		Skin
	SUVA	NNN		275,000	50				
		SWEDEN		250,000	50	400,000	75,000		SWEDEN, Short-term value, 15 minutes average value
	National	NORWAY		270,000	50				H E
		FINLAND		270,000	50,000	550,000	100,000		FINLAND, hud
	NDS	NNN		260,000	30,000	330,000	100,000		Tive, mad
	NDSCh			520,000					
	EU	NNN		275,000	50,000	550,000	100,000		Skin
	DFG	GERMANY	С	273,000	30,000	270,000	50,000		SKIII
		SWEDEN	C	275,000	50,000	270,000	30,000		
		FRANCE		275,000	50,000	550,000	100,000		
	National			275,000	50	550,000	100,000		
		GREECE		275	50	550,000	100,000		
		DENMARK		275	50	330	100		
		FINLAND		270,000	50	550,000	100,000		
		GERMANY		270,000	50	330,000	100,000		
		PORTUGAL		275,000	50	550,000	100,000		
		BELGIUM		275,000	50	550,000	100,000		
	NDS	POLAND		260,000	30	330	100		
		POLAND		200,000		520,000			
	CHE	SWITZERLAND				275,000	50,000		
	NDS	NETHERLANDS		550,000		273,000	30,000		
	National			270,000					
	National	HUNGARY		275,000		550,000			
		ESTONIA		275,000	50,000	550,000	100,000		
	National			275,000	50,000	550,000	100,000		
	National		С	273,000	30,000	550	100,000		
	National	REPUBLIC	C						
		SLOVAKIA	С			550			
	National	SLOVAKIA		275,000	50,000				
	National	SLOVENIA		275,000	50,000	550,000	100,000		
	National	UNITED KINGDOM		274,000	50,000	548,000	100,000		
	National	BULGARIA		275,000	50,000	550,000	100,000		
	National	ROMANIA		275,000	50,000	550,000	100,000		
	TUR	TURKEY		275,000	50,000	550,000	100,000		
	National	LITHUANIA		250,000	50	400,000	75,000		
		CROATIA		275,000	50	550,000	100,000		
	EU	NNN		275,000	50	550,000	100,000	Indicative	Possibility of significant
									uptake through the skin

# **Biological Exposure Index**

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CAS-No.ComponentValueUoMMediumBiological IndicatorSampling Period1330-20-7o-xylene1,5GGCREATUrineMethyl uric AcidEnd of turn

# **Predicted No Effect Concentration (PNEC) values**

Predicted No Effect Con Component	CAS-No.	PNEC	<b>Exposure Route</b>	<b>Exposure Frequency Remark</b>
	1220 20 7	Limit		-
o-xylene	1330-20-7		Fresh Water	
		_	Marine water	
		12,46 mg/kg	Freshwater sediments	
		12,46 mg/kg	Marine water sediments	
		2,31 mg/kg	Soil	
		6,58 mg/l	Microorganisms in sewage treatments	
		0,32 mg/l	Intermittent release	
(R)-p-mentha-1,8-diene	5989-27-5	1,8 mg/l	Microorganisms in sewage treatments	
		0,0054 mg/l	Fresh Water	
		0,262 mg/kg	Soil	
		0,00054 mg/l	Marine water	
		1,32 mg/kg	Freshwater sediments	
		3330 mg/kg	Oral	
		0,13 mg/kg	Marine water sediments	
2-methoxy-1-methylethyl acetate	108-65-6	0,635 mg/l	Fresh Water	
		0,0635 mg/l	Marine water	
		3,29 mg/kg	Freshwater sediments	
		0,329 mg/kg	Marine water sediments	
		6,35 mg/l	Intermittent release	
		100 mg/l	Microorganisms in sewage treatments	
		0,29 mg/kg	Soil	

# **Derived No Effect Level. (DNEL)**

Derived No Effect Leve	I. (DNEL)				
Component	CAS-No.	Worker Worker Industr Profess y ional		Exposure Route	Exposure Frequency Remark
o-xylene	1330-20-7	442, 000000 mg/m3	174 mg/m3	Human Inhalation	Short Term, local effects
		289 mg/m3	174 mg/m3	Human Inhalation	Short Term, systemic effects
		212, 000000 mg/kg	125, 000000 mg/kg	Human Dermal	Long Term, systemic effects
		221, 000000 mg/m3	65, 300000 mg/m3	Human Inhalation	Long Term, systemic effects

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			12, 500000 mg/kg	Human Oral	Long Term, systemic effects
Solvent naphtha (petroleum), light arom. (*)	64742-95-6	25 mg/kg		Human Dermal	Long Term, systemic effects
		150 mg/m3		Human Inhalation	Long Term, systemic effects
			11 mg/kg	Human Dermal	Long Term, systemic effects
			32 mg/m3	Human Inhalation	Long Term, systemic effects
			11 mg/kg	Human Oral	Long Term, systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	33,3 mg/m3	8,33 mg/m3	Human Inhalation	Long Term, systemic effects
			4,76 mg/kg	Human Oral	Long Term, systemic effects
2-methoxy-1-methylethyl acetate	108-65-6	796 mg/kg	320 mg/kg	Human Dermal	Long Term, systemic effects
		275 mg/m3	33 mg/m3	Human Inhalation	Long Term, systemic effects
			36 mg/kg	Human Oral	Long Term, systemic effects
		550 mg/m3		Human Inhalation	Short Term, local effects

# 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Liquid Yellow

Odour: Characteristic Odour threshold: N.A.

pH: N.A.

 $\label{eq:Melting point / freezing point: N.A.}$  Initial boiling point and boiling range: N.A.

Flash point: 30 °C (86 °F)

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Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: N.A. Relative density: N.A. Solubility in water: N.A.

Partition coefficient (n-octanol/water): N.A. - This product is a mixture

Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A. - No components with explosive properties - No component with oxidizing properties Oxidizing properties: N.A.

Solid/gas flammability: N.A.

#### 9.2. Other information

No additional information

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under normal conditions

# 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

Stable under normal conditions.

# 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

## 10.6. Hazardous decomposition products

None.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

# Toxicological information on main components of the mixture:

2.4-Diisocvanatotoluene- a) acute toxicity

polypropylene glycol

copolymer

LD50 Oral Rat > 5000 mg/kg

LC50 Inhalation Rat > 3,820 mg/l 4h

o-xylene a) acute toxicity LD50 Oral Mouse = 5627,00000 mg/kg

> LC50 Inhalation Vapour Rat = 11 mg/l 4h LD50 Skin Rabbit > 5000,00000 mg/kg LC50 Inhalation Rat = 29,08000 mg/l 4h LC50 Inhalation Rat = 6700,00000 ppm 4h

LD50 Skin Rabbit > 4350 mg/kg LD50 Oral Rat = 3500 mg/kg

e) germ cell mutagenicity NOAEL Inhalation Rat > 2000,00000 ppm

f) carcinogenicity NOAEL Oral Rat = 500 mg/kg

g) reproductive toxicity NOAEL Inhalation Rat = 500,00000 ppm

Solvent naphtha

(petroleum), light arom.

a) acute toxicity LD50 Oral Rat > mg/kg

> LD50 Skin Rabbit > 2000 mg/kg LD50 Skin Rabbit > 2000 mg/kg LC50 Inhalation Rat = 3400 ppm 4h

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LD50 Oral Rat = 8400 mg/kg

(R)-p-mentha-1,8-diene a) acute toxicity

LD50 Oral Rat = 4400 mg/kg LD50 Skin Rabbit = 5100 mg/kg LD50 Skin Rabbit > 5 g/kg LD50 Oral Rat = 5200 mg/kg LD50 Oral Rat = 4400 mg/kg

2-methoxy-1-methylethyl a) acute toxicity

LD50 Oral Rat > 5000 mg/kg

acetate

LD50 Skin Rabbit > 5000 mg/kg LC50 Inhalation Dust Rat > 23,8 mg/l

LD50 Skin Rabbit > 5 g/kg LD50 Oral Rat = 8532 mg/kg

e) germ cell mutagenicity NOAEL Inhalation Rat = 1000 ppm g) reproductive toxicity NOAEL Inhalation Rat = 500 ppm

### If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties						
Component	Ident. Numb.	Ecotox Infos				
2,4-Diisocyanatotoluene- polypropylene glycol copolymer	CAS: 37273-56-6	c) Bacteria toxicity: EC50 > 10000 mg/L				
o-xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022- 00-9	a) Aquatic acute toxicity: EC50 Daphnia = 165 mg/L 48				
		a) Aquatic acute toxicity: LC50 Fish = 2,60000 mg/L 96				
		a) Aquatic acute toxicity: EC50 Algae = 2,2 mg/L 72				
		c) Bacteria toxicity: EC50 = 96 mg/L 24				
		b) Aquatic chronic toxicity: NOEC Fish > 1,3 mg/L - 56 days				
		b) Aquatic chronic toxicity: NOEC Daphnia = 1,57 mg/L - 21 days				
		a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 13,4 mg/L 96h EPA				
		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 2,661 mg/L 96h EPA				
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 13,10000 mg/L 96h EPA				

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- a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata 30,26000 mg/L 96h
- a) Aquatic acute toxicity: EC50 Daphnia water flea = 3,82000 mg/L 48h
- a) Aquatic acute toxicity : LC50 Daphnia Gammarus lacustris = 0,60000 mg/L
- b) Aquatic chronic toxicity: EC50 Algae = 0,44000 mg/L 72h
- a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 13,5 mg/L 96h  $\scriptstyle\rm IUCLID$
- a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 19 mg/L 96h EPA
- a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus 7,711 mg/L 96h
- EPA
- a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 23,53 mg/L 96h FPA
- a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio = 780 mg/L 96h EPA
- a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio > 780 mg/L 96h IUCLID

Solvent naphtha (petroleum), light CAS: 64742-95-6 - arom. (\*) EINECS: 265-199-0

- INDEX: 649-356-00-4 a) Aquatic acute toxicity: LC50 Fish = 9,22 mg/L 96

a) Aquatic acute toxicity : EC50 Daphnia = 6,14 mg/L 48

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 9,22 mg/L 96h

IUCLID

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 6,14 mg/L 48h

IOCLID

G: LC50 Avian Colinus virginianus > 6500 ppm 5d IUCLID G: LD50 Avian Colinus virginianus > 2250 mg/kg IUCLID

(R)-p-mentha-1,8-diene CAS: 5989-27-5 -EINECS: 227-813-5

- INDEX: 601-029-

00-7

a) Aquatic acute toxicity: LC50 Fish = mg/L 96

a) Aquatic acute toxicity: EC50 Daphnia = mg/L 48

a) Aquatic acute toxicity: EC50 Algae = mg/L

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 0,619 mg/L 96h

EPA

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 35 mg/L 96h EPA

2-methoxy-1-methylethyl acetate CAS: 108-65-6 -

EINECS: 203-603-9 - INDEX: 607-195a) Aquatic acute toxicity: LC50 Fish = 140 mg/L 96

a) Aquatic acute toxicity : EC50 Daphnia > 500 mg/L 48

b) Aquatic chronic toxicity: NOEC Fish = 47,5 mg/L - 14 d

b) Aquatic chronic toxicity: NOEC Daphnia = 100 mg/L - 21 d

a) Aquatic acute toxicity: EC50 Algae > 1000 mg/L 72

a) Aquatic acute toxicity: NOEC Algae = 1000 mg/L 96

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 161 mg/L 96h

IUCLID

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 500 mg/L 48h IUCLID

# 12.2. Persistence and degradability

Component Persitence/Degradabili

ty:

o-xylene Readily biodegradable

# 12.3. Bioaccumulative potential

N.A.

# 12.4. Mobility in soil

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#### 12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

#### 12.6. Other adverse effects

N.A.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Product:

Do not dispose of waste into sewers.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to an authorized waste disposal service.

Contaminated packaging:

Empty remaining content.

Dispose of as unused product.

Do not re-use empty containers.

# **SECTION 14: Transport information**

#### 14.1. UN number

1139

# 14.2. UN proper shipping name

ADR-Shipping Name: COATING SOLUTION IATA-Technical name: COATING SOLUTION IMDG-Technical name: COATING SOLUTION

# 14.3. Transport hazard class(es)

ADR-Class: 3
IATA-Class: 3
IMDG-Class: 3

# 14.4. Packing group

ADR-Packing Group: III IATA-Packing group: III IMDG-Packing group: III

# 14.5. Environmental hazards

Marine pollutant: No Environmental Pollutant: No

# 14.6. Special precautions for user

Road and Rail ( ADR-RID ):

ADR exempt: No ADR-Label: 3

ADR-Hazard identification number: 30

ADR-Special Provisions: -

ADR-Transport category (Tunnel restriction code): 3 (D/E)

Air ( IATA ):

IATA-Passenger Aircraft: 355 IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3

Sea ( IMDG ):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

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IMDG-Special Provisioning: 955

IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: F-E, S-E IMDG-MFAG: N/A

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

# **SECTION 15: Regulatory information**

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

VOC (2004/42/EC): N.A.

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) 2015/830

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category Lower-tic according to Annex 1, part 1 (tonnes) Products belongs to category 5000

Lower-tier threshold (tonnes)

Upper-tier threshold (tonnes)

elongs to category 5000 50000

P5c

#### German Water Hazard Class.

N.A.

# Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 28, 29

#### **SVHC Substances:**

No data available

# 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

# **SECTION 16: Other information**

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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H412	Harmful to aquatic life with long lasting effects.				
Code	Hazard class and hazard category	Description			
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3			
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4			
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4			
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1			
3.2/2	Skin Irrit. 2	Skin irritation, Category 2			
3.3/2	Eye Irrit. 2	Eye irritation, Category 2			
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1			
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3			
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2			
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1			
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1			
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2			
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3			

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
2.6/3	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1	Calculation method
3.9/2	Calculation method

Toxic to aquatic life with long lasting effects.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

H411

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

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ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

**PSG:** Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

# Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 15. REGULATORY INFORMATION

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# Safety Data Sheet TECNOCOAT CP 2049 /B

Safety Data Sheet dated: 09/06/2020 - version 3



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

## 1.1. Product identifier

Mixture identification:

Trade name: TECNOCOAT CP 2049 /B

Trade code: 904TA99999 Registration Number N/A

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

Recommended use: Poliureic membrane Uses advised against: Data not available

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

Company: TECNOPOL SISTEMAS c/Finlàndia, 33

08520 Les Franqueses del Vallès

Barcelona (Spain)
Responsable: info@tecnopol.es

# 1.4. Emergency telephone number

(National Institue of Toxicology) 0034 915 62 04 20

**TECNOPOL SISTEMAS** 

Phone: +34 935 682 111 (office hours)

#### **SECTION 2: Hazards identification**







# 2.1. Classification of the substance or mixture

# Regulation (EC) n. 1272/2008 (CLP)

Acute Tox. 4 Harmful if swallowed.

Eye Irrit. 2 Causes serious eye irritation.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

Aquatic Acute 1 Very toxic to aquatic life.

 $\mbox{ Aquatic Chronic 1 } \mbox{ Very toxic to aquatic life with long lasting effects.}$ 

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

# Regulation (EC) n. 1272/2008 (CLP)

# **Pictograms and Signal Words**



Warning

## **Hazard statements:**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

## **Precautionary statements:**

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

**Contains:** 

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# Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

N.A.

# 3.2. Mixtures

Mixture identification: TECNOCOAT CP 2049 /B

#### Hazardous components within the meaning of the CLP regulation and related classification:

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	diethylmethylbenzenediamine	CAS:68479-98-1 EC:270-877-4 Index:612-130- 00-0	STOT RE 2, H373; Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312	01-2119486805-25-XXXX
≥20 - <25 %	4,4'-methylenebis[N-sec-butylaniline]	CAS:5285-60-9 EC:226-122-6	Acute Tox. 4, H302	

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

# 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

# 5.3. Advice for firefighters

Use suitable breathing apparatus.

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# **SECTION 6: Accidental release measures**

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

Wear personal protection equipment.

Remove persons to safety.

## 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

# 6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

#### 6.4. Reference to other sections

See also section 8 and 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

# 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Predicted No Effect Concentration (PNEC) values**

Component	CAS-No.	PNEC Limit	Exposure Route	<b>Exposure Frequency Remark</b>
diethylmethylbenzenedia mine	68479-98-1	0,0005 mg/l	Fresh Water	
		0,00005 mg/l	Marine water	
		0,005 mg/l	Intermittent release	
		0,0029 mg/kg	Marine water	
		17 mg/l	Microorganisms in sewage treatments	

# **Derived No Effect Level. (DNEL)**

Component	CAS-No.	Worker Worker Industr Profess y ional		Exposure Route	Exposure Frequency Remark
diethylmethylbenzenedia mine	68479-98-1	1 mg/kg		Human Dermal	Long Term, systemic effects
		0,13 mg/m3		Human Inhalation	Long Term, systemic effects
			0,1 mg/kg	Human Oral	Long Term, systemic effects
			1 mg/kg	Human Dermal	Long Term, systemic effects

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0,1 Human Inhalation Long Term, systemic mg/m3 effects

### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Liquid Green

Odour: Characteristic Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.

Flash point: >100 °C (212 °F) Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: N.A. Relative density: 0.98 g/cm3 Solubility in water: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Viscosity: 100.00 cPs Explosive properties: N.A. Oxidizing properties: N.A. Solid/gas flammability: N.A.

9.2. Other information

No additional information

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Stable under normal conditions

# 10.2. Chemical stability

Stable under normal conditions

# 10.3. Possibility of hazardous reactions

None.

#### 10.4. Conditions to avoid

Stable under normal conditions.

# 10.5. Incompatible materials

None in particular.

# 10.6. Hazardous decomposition products

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# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

# Toxicological information on main components of the mixture:

diethylmethylbenzenedia a) acute toxicity

LD50 Oral Rat = 738 mg/kg

mine

LD50 Skin Rat > 2000 mg/kg LD50 Skin Rabbit > 2000 mg/kg

21 d

LD50 Skin Rabbit = 700 mg/kg LD50 Oral Rat = 485 mg/kg

4,4'-methylenebis[N-sec- a) acute toxicity

LD50 Oral Rat = 1380,00000 mg/kg

butylaniline]

LD50 Skin Rabbit = 3090,00000 mg/kg

# If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Very toxic to aquatic organisms.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## List of components with eco-toxicological properties

Component Ident. Numb. Ecotox Infos

diethylmethylbenzenediamine CAS: 68479-98-1 - a) Aquatic acute toxicity: LC50 Fish > 104 mg/L 96

EINECS: 270-877-4 - INDEX: 612-130-

00-0

a) Aquatic acute toxicity: EC50 Daphnia = 5,8 mg/L 48
 a) Aquatic acute toxicity: EC50 Algae = 104 mg/L 72
 a) Aquatic acute toxicity: LC50 Daphnia = 0,5 mg/L 48

# 12.2. Persistence and degradability

N.A.

# 12.3. Bioaccumulative potential

N.A.

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# 12.4. Mobility in soil

NΑ

# 12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

# 12.6. Other adverse effects

N.A.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Product:

Do not dispose of waste into sewers.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to an authorized waste disposal service.

Contaminated packaging:

Empty remaining content.

Dispose of as unused product.

Do not re-use empty containers.

# **SECTION 14: Transport information**

# 14.1. UN number

3082

# 14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine) IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine) IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine)

# 14.3. Transport hazard class(es)

ADR-Class: 9
IATA-Class: 9
IMDG-Class: 9

**14.4. Packing group**ADR-Packing Group: III

IATA-Packing group: III
IMDG-Packing group: III

# 14.5. Environmental hazards

Toxic Component most present: diethylmethylbenzenediamine

Marine pollutant: Yes
Environmental Pollutant: Yes

14.6. Special precautions for user

Road and Rail ( ADR-RID ) :

ADR exempt: No ADR-Label: 9

ADR-Hazard identification number: 90 ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

Air (IATA):

IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197

Sea ( IMDG ):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

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IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: F-A, S-F IMDG-MFAG: N/A

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 I or less for liquids, or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to provisions of ADR, IMDG and IATA DGR.

#### **SECTION 15: Regulatory information**

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

VOC (2004/42/EC): 250 (A+B) q/I

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) 2015/830

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category Lower-tier threshold according to Annex 1, part 1 (tonnes)

(tonnes)

200

Upper-tier threshold

Products belongs to category E1 100

## German Water Hazard Class.

N.A.

## Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 52

# **SVHC Substances:**

No data available

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

# **SECTION 16: Other information**

Code	Description				
H302	Harmful if swallowed.				
H312	Harmful in contact with skin.				
H319	Causes serious eye irritation.				
H373	May cause damage to organs through prolonged or repeated exposure.				
H400	Very toxic to aquatic life.				
H410	Very toxic to aquatic life with long lasting effects.				
Code	Hazard class and hazard category	Description			
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4			
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4			

Date 03/08/2020 **Production Name** TECNOCOAT CP 2049 /B Page n. 7 of 9 3.3/2 Eye Irrit. 2 Eye irritation, Category 2
3.9/2 STOT RE 2 Specific target organ toxicity — repeated exposure, Category 2
4.1/4.1 Agustic Acute 1

4.1/A1 Aquatic Acute 1 Acute aquatic hazard, category 1

4.1/C1 Aquatic Chronic 1 Chronic (long term) aquatic hazard, category 1

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

**Classification procedure** 

(EC) Nr. 1272/2008
3.1/4/Oral Calculation method
3.3/2 Calculation method
3.9/2 Calculation method
4.1/A1 Calculation method
4.1/C1 Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

Classification according to Regulation

BCF: Biological Concentration Factor BEI: Biological Exposure Index BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center CE: European Community

CLP: Classification, Labeling, Packaging. CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand COV: Volatile Organic Compound CSA: Chemical Safety Assessment CSR: Chemical Safety Report DMEL: Derived Minimal Effect Level DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

 ${\tt EINECS: European\ Inventory\ of\ Existing\ Commercial\ Chemical\ Substances.}$ 

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

 $ICAO-TI: Technical\ Instructions\ by\ the\ "International\ Civil\ Aviation\ Organization"\ (ICAO).$ 

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

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LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

# Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION

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