

ANTI-CORROSIVE EPOXY PPRIMER 3:1

SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification

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UFI: PXT0-TODR-J00T-K9R0

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

Two-component epoxy filling primer providing active anti-corrosion protection for passenger cars, buses and trucks, characterized by very good adhesion to steel, galvanized steel, aluminium and polyester laminates. Professional use in industry.

1.3 Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

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1.4. Emergency telephone

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture has been classified as hazardous.

Classification according to the Regulation (EC) no 1272/2008

Flam. Liq. 3	Flammable liquid, hazard category 3.
H226	Flammable liquid and vapour.
Skin Irrit. 2	Skin corrosion/irritation, hazard category 2.
H315	Causes skin irritation.
Eye Dam. 1	Serious eye damage, cat. 1*
H318	Causes serious eye damage.*
Skin Sens. 1	Skin sensitization, hazard category 1.
H317	May cause an allergic skin reaction.
STOT SE 3	Specific target organ toxicity – repeated exposure, cat. 3*
H335	May cause respiratory irritation.*
STOT RE 2	Specific target organ toxicity – repeated exposure, cat. 2*
H373	May cause damage to organs through prolonged or repeated exposure.*
Aquatic Chronic 2	Hazardous to the aquatic environment – chronic hazard, cat. 2*
H411	Toxic to aquatic life with long-lasting effects.*

2.2. Label elements

Contains:

Xylene N-butanol.*

Classification according to the regulation (EC) no 1272/2008: The product has been classified and labelled according to CLP regulation.

Hazard pictograms:



GHS02

GHS05*

GHS07

GHS08*

GHS09*

Signal word: **Danger.***

Hazard statements*:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.*
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.*
H373	May cause damage to organs through prolonged or repeated exposure.*
H411	Toxic to aquatic life with long-lasting effects.*

Precautionary statements*:

Prevention:

P210	Keep away from sources of heat/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe mist/vapours/spray.
P273	Avoid release to the environment.*
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Reaction:

P302+P352	IF ON SKIN: Wash skin with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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P314 Get medical advice/attention if you feel unwell.*
P391 Collect spillage.*
Storage:
P403+P235 Store in a well-ventilated place. Keep cool.*
Disposal:
P501 Dispose of contents/container to: landfill for hazardous substances.*

Additional information on the label*:

EUH205 Contains epoxy components. May cause an allergic reaction.*
EUH211 Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour.*

2.3 Other hazards

No data. *

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Description: A mixture of organic compounds with additives.*

Substance name	Identification	Classification 1272/2008:	% weight
4,4'-Isopropylidenediphenol, polymeric reaction products with 1-chloro-2,3-epoxypropane *	Index no --- CAS 25068-38-6 polymer EC ---	Skin Sens. 1, H317	18-23
Xylene*	index 601-022-00- 9 CAS 1330-20-7 EC 215-535-7 Registration no 01-2119488216-32-XXXX	*Flam. Liq. 3, H226, Acute Tox. 4, H312, Acute Tox. 4, H332, Skin Irrit. 2, H315, Eye Irrit. 2, H319, STOT SE 3, H335, STOT SE 3, H336, STOT RE 2, H373, Asp. Tox. 1, H304	13-18*
Trizinc bis(orthophosphate)*	Index 030-011-00-6 CAS 7779-90-0 for the anhydrous substance EC231-944-3 Registration no01-2119485044-40-xxxx	Aquatic Acute 1, H400, Aquatic Chronic 1, H410	10-12
titanium dioxide*	Index no - CAS 13463-67-7 EC236-675-5 Registration no01-2119489379-17- 0004	Carc. 2 H351 (inhalation)	0 – 6.5
1-ethoxypropan-2-ol *	Index 603-177-00-8 CAS 1569-02-4 EC216-374-5 Registration no01-2119462792-32-xxxx	Flam. Liq. 3, H226, Eye Irrit. 2, H319, STOT SE 3, H336	< 3.5
N-butyl alcohol*	Index 603-004-00-6 CAS 71-36-3 EC200-751-6 Registration no01-2119484630-38-xxxx	Acute Tox. 4, H302, STOT SE 3, H335, STOT SE 3, H336, Eye Dam. 1, H318, Skin Irrit. 2, H315, Flam. Liq. 3, H226	< 3.5
Ethylbenzene	Index 601-023-00- 4 CAS 100-41-4 EC 202-849-4 Registration no 01- 2119489370-35-XXXX	Flam. Liq. 2, H225, Acute Tox. 4, H332, STOT RE 2*, H373 *, Asp. Tox. 1*, H304*	< 2 *
hydrocarbons,C9,aromatics*	Index no - CAS 64742-95-6 EC918-668-5 Registration no01-2119455851-35-xxxx	Flam. Liq. 3, H226, STOT SE 3, H335, STOT SE 3, H336, Asp. Tox. 1, H304, Aquatic Chronic 2, H411	< 0.5

Full hazard statements provided in section 16 of the Sheet.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Airways:

Remove the injured person from the area of exposure, provide access to fresh air. In case of respiratory arrest perform artificial respiration. Provide medical aid if needed. *

Ingestion:

Rinse mouth with water. Do not give anything to an unconscious person to swallow. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Take the victim immediately to the hospital. *

Contact with eyes:

Remove contact lenses. Rinse with plenty of water with the eyelid held wide open, avoiding a strong water jet. If necessary consult an ophthalmologist. *

Contact with skin:

Take off contaminated clothes and shoes. Wash skin with plenty of water and soap. If skin irritation occurs, consult a doctor. *

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4.2. Most important symptoms both acute and delayed

High doses of vapours may cause: dizziness, drowsiness, headache, vomiting, loss of consciousness. Contact with skin may cause allergic reactions and its dryness and cracking. May cause eye damage. *

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

Symptomatic treatment. Provide the doctor with the product safety data sheets. First aiders should wear medical gloves. *

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents:

Carbon dioxide CO₂, extinguishing powders, extinguishing foam resistant to alcohol. Water mist*.

Unsuitable extinguishing agents:

Do not use strong jets of water on the surface of the burning mixture. This causes scattering of the burning mixture and thus the spread of the fire.

5.2. Special hazards arising from the substance or mixture

Flammable liquid mixture. Combustion may form carbon oxides and other toxic gases. Vapours may ignite again. *

5.3. Advice for fire fighters

Use independent self-contained breathing apparatus and full protective clothing. Tanks exposed to high temperature should be cooled with water from a safe distance and, if possible, removed from the endangered area. Collect the extinguishing water. Prevent fire-fighting water from entering surface or ground water. *

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Evacuate personnel to a safe place. Eliminate ignition sources. Avoid breathing vapour / mist / spray. Provide adequate ventilation. Avoid contamination of eyes, skin and clothing. Wear protective clothing and equipment. *

6.2. Environmental precautions

Prevent from entering sewage system, surface water, ground water and soil. In the event of serious contamination of a watercourse, sewage system or soil, notify the appropriate administrative and control authorities and rescue organizations. *

6.3. Methods and materials for containment and cleaning up

Eliminate the source of the leak. Collect small spills with non-combustible absorbent material. Collect large spills mechanically. Collect contaminated soil. *

6.4. Reference to other sections

Personal protection – see section 8 of the Sheet. Disposal methods – see section 13 of the Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Avoid open flames and high temperature. Work in well-ventilated rooms. Do not breathe vapours or spray. Avoid contamination of eyes, skin and clothing. Do not eat or drink at the site where the product is used. Wash hands before each break and at the end of work. Observe the rules of personal hygiene. *

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed, original containers. Store in a cool and well-ventilated place. Away from the sources of fire and heat. Avoid electrostatic discharge. *

7.3. Special end use (s)

No further relevant data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

Maximum permissible concentrations*:

SUBSTANCE	CAS	MPC (mg/m ³)	MPIC (mg/m ³)	MPCC (mg/m ³)	Remarks: Labelling the substance with notation 'skin'***
Xylene	1330-20-7	100	200	-	Skin
titanium dioxide (inhalable fraction)	13463-67-7	10	-	-	-
N-butyl alcohol	71-36-3	50	150	-	Skin
Ethylbenzene	100-41-4	200	400	-	Skin

CAS number	Absorbed substance	Marked substance	Biological material	DSB values
1330-20-7	Xylene	Methyl hippuric acid	urine*	0.75 g/g creatinine

**The sample is collected once, at the end of the daily exposure on any given day.

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DNEL values*:

Xylene	DNEL values:	workers	Skin	long-term exposure - systemic effects	212 mg/kg b. w./day
	DNEL values:	workers	inhalation:	acute exposure - local effects	442 mg/m ³
	DNEL values:	workers	inhalation:	acute exposure - systemic effects	442 mg/m ³
	DNEL values:	workers	inhalation:	long-term exposure - local effects	221 mg/m ³
	DNEL values:	workers	inhalation:	long-term exposure - systemic effects	221 mg/m ³
	DNEL values:	consumers	ingestion:	long-term exposure - systemic effects	12.5 mg/kg b. w./day
	DNEL values:	consumers	Skin	long-term exposure - systemic effects	125 mg/kg b. w./day
	DNEL values:	consumers	inhalation:	acute exposure - local effects	260 mg/m ³
	DNEL values:	consumers	inhalation:	acute exposure - systemic effects	260 mg/m ³
DNEL values:	consumers	inhalation:	long-term exposure - local effects	65.3 mg/m ³	
DNEL values:	consumers	inhalation:	long-term exposure - systemic effects	65.3 mg/m ³	

Trizinc bis(orthophosphate)	DNEL values:	workers	Skin	long-term exposure - systemic effects	83 mg/kg b. w./day
	DNEL values:	workers	inhalation:	long-term exposure - systemic effects	5 mg/m ³
	DNEL values:	consumers	Skin	long-term exposure - systemic effects	83 mg/kg b. w./day
	DNEL values:	consumers	inhalation:	long-term exposure - systemic effects	2.5 mg/m ³
	DNEL values:	consumers	ingestion:	long-term exposure - systemic effects	0.83 mg/kg b. w./day

1-ethoxypropan-2-ol	DNEL values:	workers	inhalation:	short time exposure - systemic effects	466 mg/m ³
	DNEL values:	workers	inhalation:	long-term exposure - systemic effects	211 mg/m ³
	DNEL values:	workers	Skin	long-term exposure - systemic effects	74 mg/kg/b. w. /day
	DNEL values:	consumers	oral	long-term exposure - systemic effects	14 mg/kg/b. w. /day
	DNEL values:	consumers	Skin	long-term exposure - systemic effects	44.3 mg/kg/b. w. /day
	DNEL values:	consumers	inhalation:	short time exposure - systemic effects	300 mg/m ³
	DNEL values:	consumers	inhalation:	long-term exposure - systemic effects	127 mg/m ³

N-butyl alcohol	DNEL values:	workers	inhalation:	long-term exposure - local effects	10 mg/m ³
	DNEL values:	consumers	ingestion:	long-term exposure - systemic effects	3.125 mg/kg/day
	DNEL values:	consumers	inhalation:	long-term exposure - local effects	55 mg/m ³

Ethylbenzene	DNEL values:	workers	Skin	long-term exposure - systemic effects	180 mg/kg b. w./day
	DNEL values:	workers	inhalation:	acute exposure - local effects	293 mg/m ³
	DNEL values:	workers	inhalation:	long-term exposure - systemic effects	77 mg/m ³
	DNEL values:	consumers	inhalation:	long-term exposure - systemic effects	15 mg/m ³
	DNEL values:	consumers	ingestion:	long-term exposure - systemic effects	1.6 mg/kg b. w./day

hydrocarbons, C9, aromatics*	DNEL values:	workers	Skin	long-term exposure - systemic effects	25 mg/kg b. w./day
	DNEL values:	workers	inhalation:	acute exposure - systemic effects	150 mg/m ³
	DNEL values:	consumers	Skin	long-term exposure - systemic effects	11 mg/kg b. w./day
	DNEL values:	consumers	inhalation:	long-term exposure - systemic effects	32 mg/m ³
	DNEL values:	consumers	ingestion:	long-term exposure - systemic effects	11 mg/kg b. w./day

PNEC values*:

Xylene	PNEC values:	fresh water	0.327 mg/l
	PNEC values:	sea water	0.327 mg/l
	PNEC values:	Sediment (fresh water)	12.46 mg/kg d. m. of sediment
	PNEC values:	Sediment (sea water)	12.46 mg/kg d. m. of sediment
	PNEC values:	biological sewage treatment plant	6.58 mg/dm ³
	PNEC values:	soil	2.31 mg/kg d. m. of soil

Trizinc bis(orthophosphate)	PNEC values:	fresh water	20.6 µg/l
	PNEC values:	sea water	6.1 µg/l
	PNEC values:	Sediment (fresh water)	117.8 mg/kg d. m. of sediment
	PNEC values:	Sediment (sea water)	56.5 mg/kg d. m. of sediment
	PNEC values:	sewage treatment plant:	52 µg/l
	PNEC values:	soil	35.6 mg/kg d. m. of soil

1-ethoxypropan-2-ol	PNEC values:	fresh water	10 mg/l
	PNEC values:	sea water	1 mg/l
	PNEC values:	Sediment (fresh water)	37.6 mg/kg
	PNEC values:	Sediment (sea water)	3.76 mg/kg
	PNEC values:	soil	1.97 mg/kg
	PNEC values:	intermittent release	19 mg/l
	PNEC values:	sewage treatment plant:	1250 mg/l
	PNEC values:	oral	142 mg/kg

N-butyl alcohol	PNEC values:	fresh water	0.082 mg/l
	PNEC values:	sea water	0.0082 mg/l
	PNEC values:	intermittent release:	2.25 mg/l
	PNEC values:	sewage treatment plant:	2476 mg/l
	PNEC values:	Sediment (fresh water)	0.178 mg/kg
	PNEC values:	Sediment (sea water)	0.0178 mg/kg
	PNEC values:	soil	0.015 mg/kg

Ethylbenzene	PNEC values:	fresh water	0.1 mg/l
	PNEC values:	sea water	0.01 mg/l
	PNEC values:	Sediment (fresh water)	13.7 mg/kg d. m. of sediment
	PNEC values:	Sediment (sea water)	1.37 mg/kg d. m. of sediment
	PNEC values:	biological sewage treatment plant	9.6 mg/dm ³
	PNEC values:	soil	2.68 mg/kg d. m. of soil

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8.2. Exposure control

Technical control measures:

General and local exhaust ventilation. Explosion-proof electrical installation. *

Personal protective measures:

Eye or face protection*:



Protective goggles / tight safety glasses.. *

Skin*/ hands protection:



Gloves protecting against chemicals.*

During full contact, gloves made of nitrile, thickness >0.55 mm, breakthrough time >480 minutes, or butyl rubber gloves, thickness >0.3 mm, breakthrough time >480 minutes. As the product is a mixture consisting of several substances, the resistance of the materials from which the gloves are made cannot be calculated in advance and should therefore be checked before use. Information about the penetration time of the substance should be obtained from the glove manufacturer. *

Protective, antistatic clothing. *

Respiratory protection:

With insufficient ventilation, a half mask with an organic vapour filter of type A or better (EN 140 or EN 141). *

Environmental control

Prevent the product from entering into sewage system, water and soil. *

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Appearance	At room temperature it is viscous liquid*
Colour	according to RANAL colour pattern
Odour	characteristic
Melting/freezing point	no data
Boiling point*	approx. 110°C*
Flammability of the materials	flammable*
Bottom and top explosion limit	bottom 0.8 vol. %, top 7 vol. % (xylene)
Flash point	22°C*
Auto ignition point	no data*
Breakdown point	no data
pH	no data
viscosity	not applicable*
Solubility in water	not soluble in water
n- octanol/water partition coefficient	3.12- 3.2 (Xylene)*
Vapour pressure	0.65 - 0.944 kPa at 20°C (xylene) *
Density at 20°C*	app. 1.6 g/cm ³
Relative vapour density	no data*
Particles characteristics *	no data

9.2 Other information

No further relevant data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No experimental data available on the reactivity of the product under conditions of normal use. *

10.2. Chemical stability

Under the conditions of correct storage and use, the mixture is chemically stable.

10.3 Possibility of hazardous reactions

Vapours of the product form explosive mixtures with air.

10.4 Conditions to be avoided

Avoid high temperatures, open flames and other ignition sources. *

10.5. Incompatible materials

Avoid contact with strong oxidants, strong acids and bases. *

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10.6. Hazardous decomposition products

Do not occur if the product is used as intended.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008*

Acute toxicity:

There are no experimental data on the toxicological properties of the product. The assessment was based on the data concerning the components included in the product.*

Acute toxicity*:

4,4'-Isopropylidenediphenol, polymeric reaction products with 1-chloro-2,3-epoxypropane	LD50 (rat, oral)	>2000 mg/kg
	LD50 (skin, rat)	>2000 mg/kg
Xylene	LD50 (rat, oral)	>2000 mg/kg
	LC50 (rat, inhalation)	> 20 mg/dm ³ /4h
	LD50 (rabbit, skin)	>2000 mg/kg
Trizinc bis(orthophosphate)	LD50 (rat, oral)	>5000 mg/kg
1-ethoxypropan-2-ol	LD50 (rat, oral)	>5000 mg/kg
	LD50 (rabbit, skin)	>5000 mg/kg
N-butyl alcohol	LD50 (rat, female, oral)	2292 mg/kg
	LC50 (rat, inhalation)	>17.76 mg/l/4h
	LD50 (rabbit, skin)	3430 mg/kg
Ethylbenzene	LD50 (rat, oral)	3500 mg/kg
	LC50 (rat, inhalation)	17.8 mg/m ³ /4h
	LD50 (skin)	15400 mg/kg
hydrocarbons, C9, aromatics	TCL0 (human, inhalation)	442 mg/m ³ /8h
	LD50 (rabbit, skin)	>3160 mg/kg
	LC50 (rat, inhalation)	> 6.193 mg/l /4h

*

ATE_{mix} (oral) >2000 mg/kg body weight

ATE_{mix} (Skin) >2000 mg/kg body weight

ATE_{mix} (inhalation) >20 mg/l

The ATE_{mix} values have been calculated using the appropriate conversion factor in Table 3.1.2. from Regulation 1272/2008/EC, as amended.

The mixture is not classified as acute toxicity. No data confirming the hazard.

Skin corrosion/irritation: The mixture is classified as causing skin irritation.*

Serious eye damage/eye irritation: The mixture is classified as causing serious eye damage.*

Allergic effect on airways or skin: The mixture is classified as causing skin sensitization.*

Mutagenic effect on germ cells: The mixture is not classified as mutagenic. No data confirming the hazard.*

Carcinogenic effect: The mixture is not classified as suspected of causing cancer. No data confirming the hazard.*

Harmful effect on reproduction: The mixture is not classified as having harmful effect on reproduction. No data confirming the hazard.*

Specific target organ toxicity – single exposure: The mixture is classified as toxic to target organs – single exposure. May cause respiratory irritation.*

Specific target organ toxicity – repeated exposure: The mixture is classified as toxic to target organs – repeated exposure.*

Aspiration hazard: The mixture is not classified as causing aspiration hazard. No data confirming the hazard.*

11.2. Information on other hazards*

No data.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

There are no experimental data on the toxicological properties of the product. The assessment was based on the data concerning the components included in the product.*

4,4'-Isopropylidenediphenol, polymeric reaction products with 1-chloro-2,3-epoxypropane	acute toxicity to fish (rainbow trout)	LC50 >100 mg/l/96h
	acute toxicity to Daphnia (Daphnia magna)	EC50 >100 mg/l/ 48h
	acute toxicity to algae	EC50 >100 mg/l/72h
Xylene	acute toxicity to fish (Pimephales promelas)	LC50 16.1 mg/l/96h
	acute toxicity to fish (Oncorhynchus mykiss)	LC50 2.6 mg/l/96h
	acute toxicity to aquatic invertebrates (Daphnia magna)	EC50 3.82 mg/l/48h
	acute toxicity to algae	EC50 2.2 mg/l/73h
Anhydrous zinc phosphate	acute toxicity for fish	LC50 0.14 mg/l
	acute toxicity to Daphnia	EC50 0.04 mg/l
	acute toxicity to algae	EC50 0.136 mg/l/72h
1-ethoxypropan-2-ol	acute toxicity for fish	LC50 >100 mg/l
	acute toxicity for crustaceans	EC50 >100 mg/l
	acute toxicity for aquatic plants	EC50 >100 mg/l
	acute toxicity for microorganisms	IC50 >100 mg/l
N-butyl alcohol	acute toxicity to fish (Pimephales promelas)	LC50 1376 mg/l/96h
	acute toxicity to daphnia (Daphnia magna)	EC50 1328 mg/l/48h
	acute toxicity to activated sludge microorganisms	EC50 4390 mg/l/17h
	acute toxicity to aquatic plants (growth rate)	EC50 225 mg/l/96h
	long-term toxicity to daphnia (Daphnia magna)	NOEC 4.1 mg/l/21d
Ethylbenzene	toxicity to fish (Pimephales promelas)	LC50 49 mg/l/96h

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Hydrocarbons, C9, aromatics	acute toxicity to aquatic invertebrates (<i>Daphnia magna</i>)	EC50 184 mg/l/24h
	acute toxicity to fish (<i>Oncorhynchus mykiss</i>)	LL50 9.2 mg/l/96h
	acute toxicity to <i>Daphnia</i> (<i>Daphnia magna</i>)	EL50 3.2 mg/l/48h
	acute toxicity to algae (<i>Pseudokirchneriella subcapitata</i>)	EL50 2.9 mg/l/72h

12.2 Persistence and degradability

Xylene- biodegradable. *
Epoxy resin- biodegradation 5%, 28 days. *
N-butyl alcohol- biodegradation 92%, 20 days. *

12.3. Bioaccumulative potential

Ethylbenzene- log Pow 3,15*

12.4. Mobility in soil

No data. *

12.5. Results of PBT and vPvB assessment

Substances included in the mixture do not meet the PBT or vPvB criteria in accordance with Annex XIII. *

12.6. Endocrine disrupting properties*

No data.

12.7. Other hazardous effects*

No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Used packaging and waste product should be delivered to authorised companies.
Dispose of according to applicable local and official waste regulations – see Section 15. *


Waste code:

08 01 11 Waste paints and varnishes containing organic solvents or other dangerous substances.

Waste container code:

15 01 10* Packaging containing residues of or contaminated by dangerous substances (e.g. pesticides of I and II class of toxicity – very toxic or toxic).

SECTION 14: TRANSPORT INFORMATION

		ADR/RID
14.1.	UN number	1263
14.2.	UN proper shipping name	
14.3.	Transport hazard class (-es)	3
	Warning label 3	
14.4.	Packaging group	III
14.5.	Environmental hazards	Yes.*
14.6.	Special precautions for users	Not applicable.
14.7.	Sea transport in bulk in accordance with IMO instruments*	Not applicable.

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- Regulation (EC) No 1272/2008 of the European of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Government Statement of 26 July 2005 on the entry into force of amendments to Annexes A and B to the European Agreement on the International Carriage of safe Goods by Road (ADR) drawn up in Geneva on September 30, 1957.

15.2 Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: OTHER INFORMATION

Hazard statements from sections 2-15 of the MSDS*:

Flam. Liq. 2 Flammable liquids, cat. 2
H225 Highly flammable liquid and vapour.
Flam. Liq. 3 Flammable liquids, cat. 3

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H226	Flammable liquid and vapour
Acute Tox. 4	Acute toxicity, cat. 4
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
Skin Irrit. 2	Skin irritation, cat. 2
H315	Causes skin irritation
Eye Dam. 1	Serious eye damage, cat. 1
H318	Causes serious eye damage
Eye Irrit. 2	Causes serious eye irritation, cat. 2
H319	Causes eye irritation
Skin Sens. 1	Skin sensitization, cat. 1
H317	May cause an allergic skin reaction
Carc. 2	Carcinogenicity, cat. 2
H351	Suspected of causing cancer
STOT SE 3	Specific target organ toxicity – single exposure, cat. 3
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
STOT RE 2	Specific target organ toxicity – repeated exposure, cat. 2
H373	May cause damage to organs through prolonged or repeated exposure
Asp. Tox. 1	Aspiration hazard
H304	May be fatal if swallowed and enters airways
Aquatic Chronic 1	Hazardous to the aquatic environment– acute hazard, cat. 1
H400	Very toxic to aquatic life
Aquatic Chronic 1	Hazardous to the aquatic environment – chronic hazard, cat. 1
H410	Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2	Hazardous to the aquatic environment – chronic hazard, cat. 2
H411	Toxic to aquatic life with long-lasting effects.

Recommended restrictions in use:

The product is intended for occupational use only.

Training Tips:

Read MSDS before using the product.

Explanation of abbreviations and acronyms:

CAS	Chemical Abstract Service.
EC no	a number ascribed to a chemical substance in the European List of Existing Chemical Substances (EINECS), or a number in the European Inventory of Notified Chemical Substances, mentioned in "No-longer polymers" publication (EINECS) or a number on the list of chemicals listed in 'No-longer polymers'.
MPC	maximum permissible concentration of health hazardous substances in the work place
MPIC	Maximum Permissible Instantaneous Concentration.
NDSP	Maximum Permissible Ceiling Concentration.
vPvB	substance, which is very Persistent and very Bio-accumulative.
PBT	substance, which is Persistent, Bio-accumulative and toxic.
DL50	lethal dose - the dose at which deaths of 50% of test animals are observed over a specified period of time.
CL50	lethal concentration - the concentration at which deaths of 50% of the test animals are observed over a specified period of time.
CE50	effective concentration - the effective concentration of the substance causing a response at 50% of the maximum value.
DNEL	no-harmful level for human health - the level of exposure to a substance not harmful to human health.
PNEC	predicted no-effect concentration - the concentration of the substance below which no harmful effects for the environment are expected*
PBC	permissible concentration in biological material - the highest permissible level of a specific factor or its metabolite in the relevant biological material or the highest permissible value of an appropriate indicator determining the impact of a chemical agent on the body.
BCF	bioconcentration factor - the ratio of the concentration of a substance in the body to its concentration in water at equilibrium.*
UN no	material identification number (UN number).
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail.
IMDG	International Marine Code of Dangerous Goods.
IATA	International Air Transport Association.

Other information sources:

IUCLID	International Uniform Chemical Information Database
ESIS	European Chemical Substances Information System
ECHA	Website

Other information:

The product described in the safety data sheet should be stored and used in accordance with good industrial practice and in accordance with all legal regulations.

The information and recommendations contained in the safety data sheet are based on our general experience and our latest knowledge, and have been presented in good faith. No part of this publication can be treated as guarantee, warranty or position directly, indirectly or otherwise. In all cases, it is the user's responsibility to determine and verify that the information and recommendations are accurate, sufficient and relevant to the particular case. The user is responsible for creating the conditions for the safe use of the product and he is responsible for the consequences of incorrect use of this product.

Classification of mixtures and evaluation method according to the Regulation (EC) No. 1272/2008 [CLP]*:
Calculation method.

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Training*:
Before they start working with the product, the users should learn the Safety Data Sheet and Health and Safety regulations regarding handling chemicals, and in particular, undergo appropriate workplace training.

Changes in the Sheet:

Update of sections:

11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/2008.

12: new subsection 12.6: Endocrine disrupting properties.

14: rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections:

1.1, 2.1, 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.2, 5.3, 6.1, 6.2, 6.3, 7.1, 7.2, 8.1, 8.2, 9.1, 10.1, 10.4, 10.5, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 13.1, 14.7, 15.1, 16.

General update.

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