

Safety Data Sheet

Page 1/20

in accordance with HSNO

Printing date: 11.06.2020

Version no. 1

Revision date: 11.06.2020

* 1 Identification of the substance or mixture and of the supplier

· **Product identifier**

· **Trade name: EN 4850 EPOXY PRIMER**

· **Article number:** 988

· **Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Process category** PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

· **Environmental release category** ERC2 Formulation into mixture

· **Article category** AC1 Vehicles

· **Application of the substance / the mixture**

Priming

Surface protection

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

EN Chemicals S.A.

57 009 Kalochori

Thessalonikil, GREECE

T: +30 2310 755 428

F: +30 2310 755 428

info@enchemicals.com

www.enchemicals.com

· **Further information obtainable from:**

Wyatt Machine Tools (Rupes) NZ Limited

Address: 388 Church Street, Penrose, Auckland

Ph (09) 525 1000; Fax (09) 525 1009

· **Emergency telephone number:** NZ Emergency 0800 992 881 (0800WYATT1)

2 Hazards identification

· **Classification of the substance or mixture**



flame

Flam. Liq. 2

H225 Highly flammable liquid and vapour.

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Trade name: **EN 4850 EPOXY PRIMER**



health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 1A H360 May damage fertility or the unborn child.



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Acute Tox. 5 H333 May be harmful if inhaled.

Aquatic Acute 2 H401 Toxic to aquatic life.

Additional information:

6.1E Substances that are acutely toxic – May be harmful, aspiration hazard

6.3A Substances that are irritating to the skin

8.3A Substances that are corrosive to ocular tissue

Label elements

GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS02



GHS05



GHS07



GHS08



GHS09

Signal word Danger

Hazard-determining components of labelling:

xylene

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reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

toluene

butan-1-ol

4-methylpentan-2-one

· Hazard statements

H225 Highly flammable liquid and vapour.

H333 May be harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/Information on ingredients

· Chemical characterisation: Mixtures

· Description: Mixture of hazardous substances

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Trade name: EN 4850 EPOXY PRIMER

Dangerous components:

CAS: 471-34-1 EINECS: 207-439-9 RTECS: EV 9580000	calcium carbonate	25-<30%
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 15-<20% ≤700)	
	 Aquatic Chronic 2, H411	
	 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
	zinc phosphate	10-<15%
	 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9	xylene	5-<10%
	 Flam. Liq. 3, H226	
	 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	
RTECS: ZE 2100000	Acute Tox. 5, H303	
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide	5-<10%
	Acute Tox. 5, H333	
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3	toluene	5-<10%
	 Flam. Liq. 2, H225	
	 Repr. 1A, H360; STOT RE 2, H373; Asp. Tox. 1, H304	
RTECS: XS 5250000	 Skin Irrit. 2, H315	
	Acute Tox. 5, H303	
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom.	2.5-<5%
	 Flam. Liq. 3, H226	
	 Asp. Tox. 1, H304	
	 Aquatic Chronic 2, H411	
	 Acute Tox. 4, H332; STOT SE 3, H335-H336	
	Acute Tox. 5, H313; Aquatic Acute 2, H401	
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4	4-methylpentan-2-one	2.5-<5%
	 Flam. Liq. 2, H225	
	 Carc. 2, H351	
RTECS: SA 9275000	 Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335	
	Acute Tox. 5, H303	
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6	butan-1-ol	≥3-<5%
	 Flam. Liq. 3, H226	
	 Eye Dam. 1, H318	
RTECS: EO 1400000	 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	
	Acute Tox. 5, H313	

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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

Firefighters should always protective equipment and breathing apparatus when handling fire coming from these products

· **Speial protective equipment and fire fighting procedures:** No special measures required.

· **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

HAZ CHEM CODE: 3YE

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

471-34-1 calcium carbonate

WES (New Zealand) Long-term value: 10 mg/m³

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1330-20-7 xyleneWES (New Zealand) Long-term value: 217 mg/m³, 50 ppmIOELV (EU) Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin**108-88-3 toluene**WES (New Zealand) Long-term value: 188 mg/m³, 50 ppm
skinIOELV (EU) Short-term value: 384 mg/m³, 100 ppm
Long-term value: 192 mg/m³, 50 ppm
Skin**108-10-1 4-methylpentan-2-one**WES (New Zealand) Short-term value: 307 mg/m³, 75 ppm
Long-term value: 205 mg/m³, 50 ppmIOELV (EU) Short-term value: 208 mg/m³, 50 ppm
Long-term value: 83 mg/m³, 20 ppm**71-36-3 butan-1-ol**WES (New Zealand) Ceiling limit: 150 mg/m³, 50 ppm
skin**Regulatory information**

WES (New Zealand): Workplace Exposure Standards and Biological Exposure Indices

IOELV (EU): (EU) 2019/1831

· **Additional information:** The lists valid during the making were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:** Fluorocarbon rubber (Viton)

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Rubber gloves

· Eye protection:



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.

· Change in condition

 Melting point/freezing point: Undetermined.

 Initial boiling point and boiling range: 110-111 °C

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· Flash point:	< 23 °C
· Flammability (solid, gas):	Not applicable.
· Autoignition temperature:	535 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.497 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	23.3-23.4 %
VOC (EC)	349.4-349.7 g/l
Solids content (volume):	45.5 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.

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- **Incompatible materials:** No further relevant information available.
 - **Hazardous decomposition products:** No dangerous decomposition products known.
-
-

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity**
 - **LD/LC50 values relevant for classification:**
-

ATE (Acute Toxicity Estimates)

Oral	LD50	12,300 mg/kg (rat)
Dermal	LD50	>17,564 mg/kg
Inhalative	LC50/4 h	>42.3-46.2 mg/l

471-34-1 calcium carbonate

Oral	LD50	6,450 mg/kg (rat)
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1330-20-7 xylene

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50 (static)	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

108-10-1 4-methylpentan-2-one

Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rab)

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Trade name: EN 4850 EPOXY PRIMER

Inhalative LC50/4 h 8.3-16.6 mg/l (rat)

71-36-3 butan-1-ol

Oral LD50 790 mg/kg (rat)

Dermal LD50 3,400 mg/kg (rabbit)

Inhalative LC50/4 h 8,000 mg/l (rat)

· Primary irritant effect:**· Skin corrosion/irritation** Irritant to skin and mucous membranes.**· Serious eye damage/irritation** Strong irritant with the danger of severe eye injury.**· Respiratory or skin sensitisation**

Sensitisation possible through skin contact.

Sensitising effect through inhalation is possible by prolonged exposure.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carc. 2, Repr. 1A

12 Ecological information**· Toxicity****· Aquatic toxicity:**

This product is not toxic for the aquatic life. Nevertheless do not dispose the product or any cleaning solvents used along with this product into the sea

· Persistence and degradability

This product contains polyestheric molecules and organic solvents and is not known to be bioaccumulative. It can be considered as biodegradable in small quantities. In case of disposal, it should be treated as a hazardous material and should be disposed accordingly. Do not just throw it away

· Behaviour in environmental systems:**· Bioaccumulative potential** No further relevant information available.**· Mobility in soil** No further relevant information available.**· Ecotoxicological effects:****· Remark:** Toxic for fish**· Additional ecological information:****· General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· Results of PBT and vPvB assessment

· **PBT:** This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT).

· **vPvB:** This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· UN-Number

· ADR, IMDG, IATA

UN1263

· UN proper shipping name

· ADR

UN1263 PAINT, ENVIRONMENTALLY HAZARDOUS, special provision 640D

· IMDG

PAINT (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), PHOSPHINOX PZ06), MARINE POLLUTANT

· IATA

PAINT

· Transport hazard class(es)

· ADR



· Class

3 (F1) Flammable liquids.

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· Label 3

· IMDG



· Class 3 Flammable liquids.

· Label 3

· IATA



· Class 3 Flammable liquids.

· Label 3

· Packing group

· ADR, IMDG, IATA II

· Environmental hazards: Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

· Marine pollutant: Yes

Symbol (fish and tree)

· Special marking (ADR): Symbol (fish and tree)

· Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code): 33

· EMS Number: F-E,S-E

· Stowage Category B

· Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· Transport category 2

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Trade name: EN 4850 EPOXY PRIMER

· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA	
· Remarks:	HAZ CHEM CODE: 3YE
· UN "Model Regulation":	UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- 3YE
- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

None of the ingredients is listed.

- **New Zealand Inventory of Chemicals**

- 471-34-1 calcium carbonate
- 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
- 14807-96-6 Talc ($Mg_3H_2(SiO_3)_4$)
- 1330-20-7 xylene
- 13463-67-7 titanium dioxide
- 108-88-3 toluene
- 64742-95-6 Solvent naphtha (petroleum), light arom.
- 108-10-1 4-methylpentan-2-one
- 71-36-3 butan-1-ol
- 112945-52-5 aerosil 200
- 1317-61-9 triiron tetraoxide
- 1317-65-3 natural Calcium carbonate
- 1332-37-2 Iron oxide
- 1330-20-7 xylene
- 100-41-4 ethylbenzene
- 78-83-1 butanol

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Trade name: EN 4850 EPOXY PRIMER**· HSNO Approval numbers**

HSNO Approval number HSR 002662

Group standard name Surface Coatings and Colourants (Flammable) Group Standard 2006

HSNO Hazard classification Refer to section 2

471-34-1 calcium carbonate: HSR006678

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700): HSR003180

1330-20-7 xylene: HSR000983

108-88-3 toluene: HSR001227

64742-95-6 Solvent naphtha (petroleum), light arom.: HSR001503

108-10-1 4-methylpentan-2-one: HSR001194

71-36-3 butan-1-ol: HSR001096

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).**· Hazard pictograms**

GHS02

GHS05

GHS07

GHS08

GHS09

· Signal word Danger**· Hazard-determining components of labelling:**

xylene

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

toluene

butan-1-ol

4-methylpentan-2-one

· Hazard statements

H225 Highly flammable liquid and vapour.

H333 May be harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our current knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H303 May be harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H333 May be harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

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

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Department of Quality Control

· **Contact:**

EN Chemicals S.A.

57 009 Kalochori

Thessalonikil, GREECE

T: +30 2310 755 428

F: +30 2310 755 428

info@enchemicals.com

www.enchemicals.com

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

ICAO: International Civil Aviation Organisation

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

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 5: Acute toxicity - oral – Category 5

Acute Tox. 4: Acute toxicity - dermal – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

NZ

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Annex: Exposure scenario

· Short title of the exposure scenario

· Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· Product category PC9a Coatings and paints, thinners, paint removers

· Process category PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

· Article category AC1 Vehicles

· Environmental release category ERC2 Formulation into mixture

· Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

· Conditions of use According to directions for use.

· Duration and frequency Frequency of use:

· Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

· Physical state Fluid

· Concentration of the substance in the mixture The substance is main component.

· Used amount per time or activity Smaller than 100 g per application.

· Other operational conditions

· Other operational conditions affecting environmental exposure Use only on hard ground.

· Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

Avoid long-term or repeated skin contact.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

· Other operational conditions affecting consumer exposure No special measures required.

· Other operational conditions affecting consumer exposure during the use of the product Not applicable.

· Risk management measures

· Worker protection

· Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

· Technical protective measures

Provide explosion-proof electrical equipment.

Use product only in enclosed systems.

Ensure that suitable extractors are available on processing machines

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· Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Pregnant women should strictly avoid inhalation or skin contact.

Tightly sealed goggles

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Measures for consumer protection

Ensure adequate labelling.

Observe consumer information and advice on safe use.

· Environmental protection measures

· Water

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

Do not allow to reach sewage system.

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

· Soil

Prevent contamination of soil.

The product is only processed over the concrete collecting basin.

· Disposal measures

 Ensure that waste is collected and contained.

· Disposal procedures

 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Waste type

 Partially emptied and uncleaned packaging

· Exposure estimation

· Consumer

 This product is to be used by professional technicians only.

· Guidance for downstream users

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.