

VERNIS D'ACCROCHAGE V4 - 5302000200



SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

1.1. Product identifier

Product name : VERNIS D'ACCROCHAGE V4
Product code : 5302000200.
UFI : G5J0-J0HM-8006-FVQV

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

N/A

1.3. Details of the supplier of the safety data sheet

Registered company name : SOROMAP PEINTURES VERNIS.
Address : 1, RUE MAURICE MALLET Z.I. DE BELIGON.17300.ROCHEFORT SUR MER.FRANCE.
Telephone : 05.46.88.36.10. Fax : 05.46.88.36.15.
contact@soromap.com
www.soromap.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 3 (Flam. Liq. 3, H226).
Acute inhalation toxicity, Category 4 (Acute Tox. 4, H332).
Skin irritation, Category 2 (Skin Irrit. 2, H315).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
Respiratory sensitisation, Category 1 (Resp. Sens. 1, H334).
Skin sensitisation, Category 1 (Skin Sens. 1, H317).
Carcinogenicity, Category 2 (Carc. 2, H351).
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).
Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).
Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS02



GHS07



GHS08

Signal Word :

DANGER

Product identifiers :

EC 203-603-9 2-METHOXY-1-METHYLETHYL ACETATE

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CAS 67815-87-6 ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH
1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL
CAS 9016-87-9 4,4' DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGE
EC 202-966-0 4,4'-METHYLENEDIPHENYL DIISOCYANATE
EC 227-534-9 O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE
EC 223-810-8 4-ISOCYANATOSULPHONYLTOLUENE
EC 219-799-4 2,2'-METHYLENEDIPHENYL DIISOCYANATE

Additional labeling :

EUH204 Contains isocyanates. May produce an allergic reaction.

Hazard statements :

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer .
H373 May cause damage to organs through prolonged or repeated exposure (if inhaled).
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P201 Obtain special instructions before use.
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/hearing protection/ ...

Precautionary statements - Response :

P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statements - Disposal :

P501 Dispose of contents/container by approved organization

Other information :

As from 24 August 2023 adequate training is required before industrial or professional use
For professional use only.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 108-65-6	GHS07, GHS02	[1]	25 \leq x % $<$ 50
EC: 203-603-9	Wng		
REACH: 01-2119475791-29	Flam. Liq. 3, H226		
2-METHOXY-1-METHYLETHYL ACETATE	STOT SE 3, H336		

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CAS: 67815-87-6 ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL	GHS07, GHS08 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1A, H334 STOT SE 3, H335 STOT RE 2, H373		25 ≤ x % < 50
CAS: 9016-87-9 4,4' DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGE	GHS07, GHS08 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373	[1] [2]	10 ≤ x % < 25
CAS: 101-68-8 EC: 202-966-0 REACH: 01-2119457014-47 4,4'-METHYLENEDIPHENYL DIISOCYANATE	GHS07, GHS08 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373	C [1] [2]	1 ≤ x % < 2.5
CAS: 5873-54-1 EC: 227-534-9 REACH: 01-2119480143-45 O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE	GHS07, GHS08 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1A, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373	C [1] [2]	1 ≤ x % < 2.5
CAS: 4083-64-1 EC: 223-810-8 REACH: 01-2119980050-47 4-ISOCYANATOSULPHONYLTOLUENE	GHS07, GHS08 Dgr Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH:014		0.1 ≤ x % < 1
INDEX: 607-251-00-0 CAS: 70657-70-4 EC: 274-724-2 REACH: 01-2119475791-29 2-METHOXYPROPYL ACETATE	GHS02, GHS08, GHS07 Dgr Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335	[1] [2]	0 ≥ x % < 0.1
CAS: 2536-05-2 EC: 219-799-4 REACH: 01-2119927323-43 2,2'-METHYLENEDIPHENYL DIISOCYANATE	GHS07, GHS08 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1A, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373	C [1] [2]	0 ≥ x % < 0.06

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Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 67815-87-6 ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL		inhalation: ATE = 1.5 mg/l 4h (dust/mist)
CAS: 9016-87-9 4,4' DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGE		inhalation: ATE = 1.5 mg/l 4h (dust/mist)
CAS: 101-68-8 EC: 202-966-0 REACH: 01-2119457014-47 4,4'-METHYLENEDIPHENYL DIISOCYANATE	Skin Irrit. 2: H315 >=5%	inhalation: ATE = 1.5 mg/l 4h (dust/mist)
CAS: 5873-54-1 EC: 227-534-9 REACH: 01-2119480143-45 O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE	Resp. Sens. 1A: H334 C>= 0% Skin Irrit. 2: H315 >=5%	inhalation: ATE = 1.5 mg/l 4h (dust/mist)
CAS: 4083-64-1 EC: 223-810-8 REACH: 01-2119980050-47 4-ISOCYANATOSULPHONYLTOLUENE	Skin Irrit. 2: H315 >=5% Eye Irrit. 2: H319 C>= 5%	oral: ATE = 2234 mg/kg BW
CAS: 2536-05-2 EC: 219-799-4 REACH: 01-2119927323-43 2,2'-METHYLENEDIPHENYL DIISOCYANATE	Resp. Sens. 1A: H334 C>= 0% Skin Irrit. 2: H315 >=5%	inhalation: ATE = 1.5 mg/l 4h (dust/mist)

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not proceed with mouth-to-mouth or mouth-to-nose resuscitation. Use the appropriate equipment.

In the event of an allergic reaction, seek medical attention.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

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In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)
- halon

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- phosgene (CCl₂O)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

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Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

Contaminated areas must be cleaned very quickly.

A possible decontaminant for flammable products may be : (expressed by volume) water (45 parts), ethanol or isopropanol (50 parts), concentrated ammonia (d-0.880) (5 parts). For non-flammable products: sodium carbonate (5 parts), water (95 parts).

This residue must be stored for disposal in compliance with current regulations (see section 13).

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of asthma, allergies and/or chronic or periodical breathing difficulties should not, under any circumstances, use these mixtures.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always ground when decanting. Wear antistatic shoes and clothing and make floors of non-conductive

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position.

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Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.
Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.
Keep away from all sources of ignition - do not smoke.
Keep well away from all sources of ignition, heat and direct sunlight.
Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- European Union (2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m ³ :	VME-ppm :	VLE-mg/m ³ :	VLE-ppm :	Notes :
108-65-6	275	50	550	100	Peau

- Germany - AGW (BAuA - TRGS 900, 08/08/2019) :

CAS	VME :	VME :	Excess	Notes
108-65-6		50 ppm 270 mg/m ³		1(I)
9016-87-9		0.05 E mg/m ³		1;=2=(I)
101-68-8		0.05 E mg/m ³		1;=2=(I)
5873-54-1		0.05 mg/m ³		1;=2=(I)
70657-70-4		5 ppm 28 mg/m ³		2(I)
2536-05-2		0.05 mg/m ³		1;=2=(I)

- France (INRS - ED984 / 2020-1546) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
108-65-6	50	275	100	550	-	-
101-68-8	0.01	0.1	0.02	0.2	AR	62

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
108-65-6	50 ppm 274 mg/m ³	100 ppm 548 mg/m ³		Sk	
9016-87-9	0.02 mg/m ³	0.07 mg/m ³	-	-	-
101-68-8	0.02 mg/m ³	0.07 mg/m ³	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Short term systemic effects.
50 mg/kg body weight/day

Exposure method:
Potential health effects:

Dermal contact.
Short term local effects.

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DNEL : 28.7 mg of substance/cm2

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 0.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 0.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.05 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.05 mg of substance/m3

Final use:**Consumers.**

Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 20 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 25 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term local effects.
DNEL : 17.2 mg of substance/cm2

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 0.05 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.025 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.025 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 0.05 mg of substance/m3

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

Final use:**Workers.**

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 50 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term local effects.

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DNEL : 28.7 mg of substance/cm2

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 0.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 0.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.05 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.05 mg of substance/m3

Final use:**Consumers.**

Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 20 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 25 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term local effects.
DNEL : 17.2 mg of substance/cm2

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 0.05 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 0.05 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.025 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.025 mg of substance/m3

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

Final use:**Workers.**

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 0.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.

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DNEL : 0.05 mg of substance/m3

Final use:

Exposure method:

Potential health effects:

DNEL :

Consumers.

Inhalation.

Short term local effects.

0.05 mg of substance/m3

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term local effects.

0.025 mg of substance/m3

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Final use:

Exposure method:

Potential health effects:

DNEL :

Workers.

Dermal contact.

Long term systemic effects.

796 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

275 mg of substance/m3

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Short term local effects.

550 mg of substance/m3

Final use:

Exposure method:

Potential health effects:

DNEL :

Consumers.

Ingestion.

Long term systemic effects.

36 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term systemic effects.

320 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term systemic effects.

33 mg of substance/m3

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Short term local effects.

33 mg of substance/m3

Predicted no effect concentration (PNEC):

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Environmental compartment:

PNEC :

Soil.

1.1 mg/kg

Environmental compartment:

PNEC :

Fresh water.

1.1 mg/l

Environmental compartment:

PNEC :

Sea water.

0.11 mg/l

Environmental compartment:

Waste water treatment plant.

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PNEC : 1.1 mg/l

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

Environmental compartment: Soil.

PNEC : 1.1 mg/kg

Environmental compartment: Fresh water.

PNEC : 1.1 mg/l

Environmental compartment: Sea water.

PNEC : 0.11 mg/l

Environmental compartment: Waste water treatment plant.

PNEC : 1.1 mg/l

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

Environmental compartment: Soil.

PNEC : 1 mg/kg

Environmental compartment: Fresh water.

PNEC : 1 mg/l

Environmental compartment: Sea water.

PNEC : 0.1 mg/l

Environmental compartment: Intermittent waste water.

PNEC : 10

Environmental compartment: Waste water treatment plant.

PNEC : 1 mg/l

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Environmental compartment: Soil.

PNEC : 0.29 mg/kg

Environmental compartment: Fresh water.

PNEC : 0.635 mg/l

Environmental compartment: Sea water.

PNEC : 0.0635 mg/l

Environmental compartment: Intermittent waste water.

PNEC : 6.35 mg/l

Environmental compartment: Fresh water sediment.

PNEC : 3.29 mg/kg

Environmental compartment: Marine sediment.

PNEC : 0.329 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC : 100 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Antistatic gloves in accordance with standard EN16350

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Wear antistatic clothing made from heat resistant natural or synthetic fibres in accordance with standard EN1149.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)
- A3 (Brown)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****Physical state**

Physical state :

Fluid liquid.

Colour

Unspecified

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Odour

Odour threshold : Not stated.

Melting point

Melting point/melting range : Not specified.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not specified.

Flammability

Flammability (solid, gas) : Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

Flash point

Flash Point : 55.00 °C.

Auto-ignition temperature

Self-ignition temperature : Not specified.

Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : Not relevant.

pH (aqueous solution) : Not stated.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Insoluble.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Below 110 kPa (1.10 bar).

Density and/or relative density

Density : 1.06

Relative vapour density

Vapour density : Not stated.

9.2. Other information

VOC (g/l) : 524.70

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

Keep away from oxidising agents and strongly acidic or basic materials to avoid exothermic reactions.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

The mixture can also release hydrogen cyanide, amines and alcohols.

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10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- phosgene (CCl₂O)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Harmful by inhalation.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

May cause hypersensitivity of the respiratory tracts with effects taking the form of asthma, rhinitis/conjunctivitis or alveolitis.

May cause an allergic reaction by skin contact.

Based on isocyanate properties and considering the toxicological data of similar mixtures, this preparation may cause irritations and/or sensitisations of the respiratory system.

It may therefore bring about asthma, respiratory difficulties and angina pectoris.

Those susceptible may display asthmatic symptoms when exposed to atmospheres with an isocyanate concentration well below those of the VLE : exposure limits.

Repeated exposure may cause permanent respiratory problems.

Suspected human carcinogen.

May cause severe damage to organs in the event of repeated or prolonged exposure.

11.1.1. Substances**Acute toxicity :**

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

Dermal route :

LD50 > 9400 mg/kg

Species : Rabbit

OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) :

LC50 = 1.50 mg/l

Species : Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

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Duration of exposure : 4 h

4,4' DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGE (CAS: 9016-87-9)

Dermal route : LD50 > 9400 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 = 1.5 mg/l
Duration of exposure : 4 h

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL (CAS: 67815-87-6)

Dermal route : LD50 > 9400 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 = 1.5 mg/l
Duration of exposure : 4 h

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Oral route : LD50 > 2000 mg/kg
Species : Rat

Dermal route : LD50 > 9400 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 = 1.5 mg/l
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

4-ISOCYANATOSULPHONYLTOLUENE (CAS: 4083-64-1)

Oral route : LD50 = 2234 mg/kg
Species : Rat

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

Oral route : LD50 > 2000 mg/kg
Species : Rat
Other guideline

Dermal route : LD50 > 9400 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 = 1.5 mg/l
Duration of exposure : 4 h

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Oral route : LD50 > 5000 mg/kg
Species : Rat

Dermal route : LD50 > 5000 mg/kg
Species : Rabbit

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Skin corrosion/skin irritation :

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

4,4' DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGUE (CAS: 9016-87-9)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

ISOCYANIC ACID, POLYMETHYLENEDIPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL (CAS: 67815-87-6)

Irritation :

Causes skin irritation.

2.3 <= Average score <= 4.0

Respiratory or skin sensitisation :

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

May cause an allergic skin reaction.

Local lymph node stimulation test :

Sensitiser.

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

May cause an allergic skin reaction.

Local lymph node stimulation test :

Sensitiser.

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Species : Others

OECD Guideline 406 (Skin Sensitisation)

4,4' DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGUE (CAS: 9016-87-9)

May cause an allergic skin reaction.

Local lymph node stimulation test :

Sensitiser.

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

OECD Guideline 406 (Skin Sensitisation)

ISOCYANIC ACID, POLYMETHYLENEDIPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL (CAS: 67815-87-6)

May cause an allergic skin reaction.

Local lymph node stimulation test :

Sensitiser.

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity :

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Mutagenesis (in vivo) :

Negative.

Species : Rat

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

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OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.
With or without metabolic activation.

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

Mutagenesis (in vivo) :

Negative.
Species : Rat
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.
With or without metabolic activation.

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

Mutagenesis (in vivo) :

Negative.
Species : Rat
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.
With or without metabolic activation.ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE,
METHYLOXIRANE AND 1,2-PROPANEDIOL (CAS: 67815-87-6)

Mutagenesis (in vivo) :

Negative.
Species : Rat
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.
With or without metabolic activation.

4,4' DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGE (CAS: 9016-87-9)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.
With or without metabolic activation.

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

No mutagenic effect.

Mutagenesis (in vitro) :

Negative.
OECD Guideline 471 (Bacterial Reverse Mutation Assay)**Carcinogenicity :**

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Carcinogenicity Test :

Positive.

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Suspected human carcinogen.

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

Carcinogenicity Test :

Positive.

Suspected human carcinogen.

4,4'-DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGUE (CAS: 9016-87-9)

Carcinogenicity Test :

Positive.

Suspected human carcinogen.

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

Reproductive toxicant :

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Study on fertility :

Species : Rat

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

ISOCYANIC ACID, POLYMETHYLENEDIPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL (CAS: 67815-87-6)

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Specific target organ systemic toxicity - repeated exposure :

ISOCYANIC ACID, POLYMETHYLENEDIPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL (CAS: 67815-87-6)

OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

11.1.2. Mixture**Respiratory or skin sensitisation :**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Contains isocyanates. May cause an allergic reaction.

11.2. Information on other hazards**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 101-68-8 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 9016-87-9 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity**12.1.1. Substances**

ISOCYANIC ACID, POLYMETHYLENEDIPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL (CAS: 67815-87-6)

Crustacean toxicity :

Species : Daphnia magna

Duration of exposure : 21 days

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

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4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

Fish toxicity : NOEC > 1 mg/l

Crustacean toxicity : NOEC > 10 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Fish toxicity : LC50 > 1000 mg/l
Species : Danio rerio
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 > 1000 mg/l
Species : Daphnia magna
Duration of exposure : 24 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC > 10 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 > 1640 mg/l
Species : Scenedesmus subspicatus
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

Fish toxicity : LC50 > 1000 mg/l
Species : Danio rerio
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 > 1000 mg/l
Species : Daphnia magna
Duration of exposure : 24 h
NOEC > 10 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 > 1640 mg/l
Species : Scenedesmus subspicatus
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Fish toxicity : LC50 = 134 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

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	NOEC = 47.5 mg/l Species : <i>Oryzias latipes</i> Duration of exposure : 14 days OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Crustacean toxicity :	EC50 > 408 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h Other guideline NOEC >= 100 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 14 days OECD Guideline 211 (<i>Daphnia magna</i> Reproduction Test)
Algae toxicity :	ECr50 > 1000 mg/l Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

Crustacean toxicity :	Harmful. EC50 = 83 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h
-----------------------	---

12.2. Persistence and degradability**12.2.1. Substances**

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

Biodegradability : Non-rapidly degradable.

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

Biodegradability : Non-rapidly degradable.

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

4,4' DIPHENYLMETHANEDIISOCYANATE, ISOMERE, HOMOLOGE (CAS: 9016-87-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH 1,2-ETHANEDIAMINE, METHYLOXIRANE AND 1,2-PROPANEDIOL (CAS: 67815-87-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Biodegradability : Rapidly degradable.

12.2.2. Mixtures**12.3. Bioaccumulative potential****12.3.1. Substances**

2,2'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 2536-05-2)

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Bioaccumulation : BCF = 200

O-(P-ISOCYANATOBENZYL)PHENYL ISOCYANATE (CAS: 5873-54-1)

Bioaccumulation : BCF = 200

4,4'-METHYLENEDIPHENYL DIISOCYANATE (CAS: 101-68-8)

Bioaccumulation : BCF = 200

Species : Cyprinus carpio (Fish)

OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Octanol/water partition coefficient : log K_{ow} = 1.2

Bioaccumulation : BCF < 100

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 1 : Slightly hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 - ICAO/IATA 2021).

14.1. UN number or ID number

1263

14.2. UN proper shipping name

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

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14.3. Transport hazard class(es)

- Classification :



3

14.4. Packing group

III

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	163 367 650	E1	3	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	3	-	III	5 L	F-E, S-E	163 223 367 955	E1	Category A	-

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	-	III	355	60 L	366	220 L	A3 A72 A192	E1
	3	-	III	Y344	10 L	-	-	A3 A72 A192	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

- Container information:

No data available.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 1 : Slightly hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

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Wording of the phrases mentioned in section 3 :

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer .
H360D	May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure .
EUH014	Reacts violently with water.

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
EC50 : The effective concentration of substance that causes 50% of the maximum response.
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.
NOEC : The concentration with no observed effect.
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE : Acute Toxicity Estimate
BW : Body Weight
DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
CMR: Carcinogenic, mutagenic or reprotoxic.
UFI : Unique formulation identifier.
STEL : Short-term exposure limit
TWA : Time Weighted Averages
TMP : French Occupational Illness table
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS02 : Flame
GHS07 : Exclamation mark
GHS08 : Health hazard
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.