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

1.1 Product identifier

Pur Pro 322
UFI: E87V-3222-U00H-03NK

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

1.2.1 Relevant uses

Adhesive / Sealant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Ramsauer GmbH & Co KG
Alte Bundesstraße 147
5350 Strobl / Wolfgangsee / AUSTRIA
Phone +43 (0)6135 8205 0
Fax +43 (0)6135 8205-250
Homepage www.ramsauer.at
E-mail office@ramsauer.at

Address enquiries to

Technical information office@ramsauer.at

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body +43 (0) 1 406 43 43 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms

Signal word DANGER

Contains: 4,4'-Methylenediphenyl diisocyanate

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Hazard statements H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements
P261 Avoid breathing vapours.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER / doctor.

Special labelling
EUH204 Contains isocyanates. May produce an allergic reaction.
- - - - - - - - - -
As from 24 August 2023 adequate training is required before industrial or professional use.
- - - - - - - - - -
EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

2.3 Other hazards

Human health dangers Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - <7	Reaction mass of ethylbenzene and xylene
	EINECS/ELINCS: 905-588-0, Reg-No.: 01-2119539452-40-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - Acute Tox. 4: H312 H332 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT SE 3: H335 - STOT RE 2: H373
1 - <5	Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 926-141-6, Reg-No.: 01-2119456620-43
	GHS/CLP: Asp. Tox. 1: H304 - EUH066
<5	Titanium dioxide (<10µm)
	CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, EU-INDEX: 022-006-002, Reg-No.: 01-2119489379-17-XXXX
	GHS/CLP: Carc. 2: H351
<2.5	Calcium oxide
	CAS: 1305-78-8, EINECS/ELINCS: 215-138-9, Reg-No.: 01-2119475325-36-XXXX
	GHS/CLP: Eye Dam. 1: H318 - STOT SE 3: H335 - Skin Irrit. 2: H315
0.1 - <1	4,4'-Methylenediphenyl diisocyanate
	CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457014-47-XXXX
	GHS/CLP: 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 - EUH204
	SCL [%]: >= 5: STOT SE 3: H335, >= 5: Eye Irrit. 2: H319, >= 5: Skin Irrit. 2: H315, >= 0.1: Resp. Sens. 1: H334
<0.1	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
	CAS: 1065336-91-5, EINECS/ELINCS: 915-687-0, Reg-No.: 01-2119491304-40-XXXX
	GHS/CLP: Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1

Comment on component parts Adhesive based on polyurethane prepolymer with diphenylmethane diisocyanate.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness
Headache
Vertigo
Nausea, vomiting.
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry powder, fire blanket, carbon dioxide, foam.

Extinguishing media that must not be used Water.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Hydrogen cyanide (HCN).

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Keep away from all sources of ignition.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Open and handle container with care.

Keep away from all sources of ignition - Refrain from smoking.
Vapours can form an explosive mixture with air.

Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep in a cool place. Store in a dry place.
Protect from atmospheric moisture and water.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Calcium oxide
CAS: 1305-78-8, EINECS/ELINCS: 215-138-9, Reg-No.: 01-2119475325-36-XXXX
Eight hours: 1 mg/m³, Respirable fraction.
Short-term (15-minute): 4 mg/m³
Chromium (III) oxide
CAS: 1308-38-9, EINECS/ELINCS: 215-160-9, Reg-No.: 01-2119433951-39-XXXX
Eight hours: 2 mg/m³

DNEL

Substance
Calcium oxide, CAS: 1305-78-8
Industrial, inhalative (dust), Long-term - local effects, 1 mg/m³
Industrial, inhalative (dust), Acute - local effects, 4 mg/m³
general population, inhalative (dust), Long-term - local effects, 1 mg/m³
general population, inhalative (dust), Acute - local effects, 4 mg/m³
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
Industrial, inhalative, Long-term - local effects, 0.05 mg/m³
Industrial, inhalative, Acute - local effects, 0.1 mg/m³
general population, inhalative, Acute - local effects, 0.05 mg/m³
general population, inhalative, Long-term - local effects, 0.025 mg/m³
Titanium dioxide (<10µm), CAS: 13463-67-7
Industrial, inhalative, Long-term - local effects, 1.25 mg/m³
general population, inhalative, Long-term - local effects, 210 µg/m³
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
Industrial, inhalative, Long-term - systemic effects, 0.68 mg/m³
Industrial, dermal, Long-term - systemic effects, 0.5 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0.05 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0.17 mg/m³
general population, dermal, Long-term - systemic effects, 0.25 mg/kg bw/day
Reaction mass of ethylbenzene and xylene
Industrial, inhalative, Acute - systemic effects, 442 mg/m³
Industrial, inhalative, Acute - local effects, 442 mg/m³
Industrial, inhalative, Long-term - local effects, 221 mg/m³
Industrial, dermal, Long-term - local effects, 212 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 221 mg/m³
general population, inhalative, Long-term - systemic effects, 65.3 mg/m³
general population, inhalative, Acute - systemic effects, 260 mg/m³
general population, inhalative, Long-term - local effects, 65.3 mg/m³
general population, inhalative, Acute - local effects, 260 mg/m³
general population, dermal, Acute - local effects, 125 mg/kg bw/day
general population, oral, Acute - local effects, 12.5 mg/kg bw/day

PNEC

Substance
Calcium oxide, CAS: 1305-78-8
seawater, 0.24 mg/L
soil, 817.4 mg/kg soil dw
sewage treatment plants (STP), 2.27 mg/L
freshwater, 0.37 mg/L
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
sediment (seawater), 1.17 mg/kg sediment dw
freshwater, 3.7 µg/L
seawater, 0.37 µg/L
sediment (freshwater), 11.7 mg/kg sediment dw
soil, 2.33 mg/kg soil dw
Titanium dioxide (<10µm), CAS: 13463-67-7
There are no PNEC values established for the substance.
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
sediment (freshwater), 1.05 mg/kg sediment dw
freshwater, 0.002 mg/L
sewage treatment plants (STP), 1 mg/L
sediment (seawater), 0.11 mg/kg sediment dw
soil, 0.21 mg/kg soil dw
seawater, 0 mg/L
Reaction mass of ethylbenzene and xylene
freshwater, 327 µg/L
seawater, 327 µg/L
sewage treatment plants (STP), 6.58 mg/L
sediment (freshwater), 12.46 mg/kg sediment dw
sediment (seawater), 12.46 mg/kg sediment dw

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.
Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

Eye protection
Safety glasses. (EN 166:2001)

Hand protection
0.4 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).
The details concerned are recommendations. Please contact the glove supplier for further information.

Skin protection
light protective clothing

Other
Do not inhale vapours.
Avoid contact with eyes and skin.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

Respiratory protection
In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.
Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)

Thermal hazards
not applicable

Delimitation and monitoring of the environmental exposition
Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	pasty
Color	various
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	137
Flash point [°C]	>70
Flammability	No classification.
Lower explosion limit	0.6 Vol.%
Upper explosion limit	8 Vol.%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm³]	1.16 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not determined
Evaporation speed	not applicable
Melting point [°C]	not determined
Auto-ignition temperature [°C]	>200
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Formation of explosive gas/air mixtures.
Reactions with alcohols, amines, aqueous acids and alkalies.
Reactions with water, with formation of carbon dioxide.
Risk of bursting.

10.4 Conditions to avoid

Strong heating.
See SECTION 7

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

Flammable gases/vapours.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity Based on available data, the classification criteria are not met.

Product
oral, Based on the available information, the classification criteria are not fulfilled.

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, oral, Rat, > 5000 mg/kg bw
Calcium oxide, CAS: 1305-78-8
LD50, oral, Rat, > 2000 mg/kg (OECD 425)
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LD50, oral, Rat, > 2000 mg/kg
Titanium dioxide (<10µm), CAS: 13463-67-7
LD50, oral, Rat, > 5000 mg/kg OECD 425
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
LD50, oral, Rat, 3230 mg/kg bw, OECD 423
Reaction mass of ethylbenzene and xylene
LD50, oral, Rat, 3523 - 4000 mg/kg bw

Acute dermal toxicity Based on available data, the classification criteria are not met.

Product
ATE-mix, dermal, > 2000 mg/kg

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, dermal, Rabbit, > 5000 mg/kg bw
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LD50, dermal, Rabbit, > 9400 mg/kg (OECD 402)
Titanium dioxide (<10µm), CAS: 13463-67-7
LD50, dermal, Rabbit, > 5000 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
LD50, dermal, Rat, 3170 mg/kg bw, OECD 402
Reaction mass of ethylbenzene and xylene
LD50, dermal, Rabbit, 12126 mg/kg bw

Acute inhalational toxicity Based on available data, the classification criteria are not met.

Product
ATE-mix, inhalative, > 20 mg/l (4 h)

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LC50, inhalative, Rat, > 4.951 mg/l 4h
Calcium oxide, CAS: 1305-78-8
LC50, inhalative, Rat, 6.04 mg/L, OECD 436, 4h
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8

LC50, inhalativ (dust), Rat, 0.49 mg/l/4h
LC50, inhalative, Rat, > 2.24 mg/l/1h (OECD 403)
LC50, inhalative, Rat, 0.368 mg/l/4h (OECD 403)
Conversion value, inhalativ (dust), 1.5 mg/l/4h
Titanium dioxide (<10µm), CAS: 13463-67-7
LC50, inhalativ (dust), Rat, > 6.8 mg/l 4h
Reaction mass of ethylbenzene and xylene
LC50, inhalative, Rat, 6350 - 6700 ppm (4h)

Serious eye damage/irritation

Based on available data, the classification criteria are not met.
Slight irritant effect - does not require labelling.
No classification due to toxicological investigations.
(OECD 405)

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Eye, Rabbit, OECD 405, non-irritating
Calcium oxide, CAS: 1305-78-8
Eye, Rabbit, OECD 405, Causes serious eye damage.
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
Eye, irritant
Titanium dioxide (<10µm), CAS: 13463-67-7
Eye, non-irritating
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
Eye, Rabbit, OECD 405, non-irritating

Skin corrosion/irritation

Based on available data, the classification criteria are not met.
Slight irritant effect - does not require labelling.

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
dermal, Rabbit, OECD 404, non-irritating
Calcium oxide, CAS: 1305-78-8
dermal, Rabbit, OECD 404, irritant
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
Rabbit, in vivo, OECD 404, irritant
Titanium dioxide (<10µm), CAS: 13463-67-7
dermal, OECD 404, non-irritating
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
dermal, Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation

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

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
dermal, Guinea pig, OECD 406, non-sensitizing
Calcium oxide, CAS: 1305-78-8
dermal, non-sensitizing
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
inhalative, Rat, in vivo. OECD-GD 39, sensitising
dermal, mouse, in vivo (LLNA), OECD 429, sensitising

Titanium dioxide (<10µm), CAS: 13463-67-7
inhalative, non-sensitizing
dermal, non-sensitizing
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
dermal, Guinea pig, OECD 406, sensitising

Specific target organ toxicity — single exposure Based on available data, the classification criteria are not met.

Substance
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
inhalative, irritant
Titanium dioxide (<10µm), CAS: 13463-67-7
inhalative, no adverse effect observed

Specific target organ toxicity — repeated exposure Based on available data, the classification criteria are not met.

Substance
Calcium oxide, CAS: 1305-78-8
NOAEC, inhalative, Rat, 107 mg/m³, no adverse effect observed
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LOAEC, inhalative, Rat, 1 mg/m³, adverse effect observed
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
LOAEL, oral, 29 mg/kg bw/day

Mutagenicity Does not contain a relevant substance that meets the classification criteria.

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
InVivo. OECD 478, negativ
InVivo. OECD 474, negativ
InVitro, OECD 473, negativ
InVitro, OECD 471, negativ
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
inhalative, Rat, in vivo, OECD 474, negativ
Titanium dioxide (<10µm), CAS: 13463-67-7
in vivo, negativ
in vitro, negativ
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
in vivo, OECD 474, negativ
in vitro, OECD 473, negativ

Reproduction toxicity Does not contain a relevant substance that meets the classification criteria.

- Fertility

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
NOAEL, inhalative, Rat, 200 ppm, OECD 413
NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 422
Calcium oxide, CAS: 1305-78-8

NOAEL, oral, mouse, 440 mg/kg bw/day, no adverse effect observed
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
NOAEC, inhalative, Rat, 200 µg/m³ (Effect on fertility), no adverse effect observed
Titanium dioxide (<10µm), CAS: 13463-67-7
NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed, Effect on developmental toxicity,
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
NOAEL, oral, Rat, 300 mg/kg bw/day, OECD 415

- Development

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
NOAEL, inhalative, Rat, 200 ppm, OECD 413
NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 422
Calcium oxide, CAS: 1305-78-8
NOAEL, oral, mouse, 440 mg/kg bw/day, no adverse effect observed
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
NOAEC, inhalative, Rat, 4 mg/m³ (Effect on developmental toxicity), no adverse effect observed
Titanium dioxide (<10µm), CAS: 13463-67-7
NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed, Effect on developmental toxicity,
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
NOAEL, oral, Rat, 300 mg/kg bw/day, OECD 415

Carcinogenicity

This product contains one or more substances of categorie Carc. 2 (CLP).
CAS: 13463-67-7

Substance
Calcium oxide, CAS: 1305-78-8
NOAEL, oral, Rat, 391 mg/kg bw/day, Study, no adverse effect observed
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
NOAEC, Rat, 1 mg/m³, adverse effect observed
Titanium dioxide (<10µm), CAS: 13463-67-7
Harmonised classification: Carc. 2 H351

Aspiration hazard

Based on available data, the classification criteria are not met.
v > 20.5 mm"/s (40 °C)

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none

SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EL0, (48h), Daphnia magna, 1000 mg/l
EL0, (72h), Pseudokirchneriella subcapitata, 1000 mg/l
LL0, (96h), Oncorhynchus mykiss, 1000 mg/l
Calcium oxide, CAS: 1305-78-8
LC50, (14d), Invertebrates, 53.1 mg/L
EC50, (48h), Invertebrates, 49.1 mg/L
EC50, (72h), Algae, 184.6 mg/L
NOEC, (14d), Invertebrates, 32 mg/L
NOEC, (48h), Invertebrates, 33.3 mg/L
4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8
LC50, (96h), Danio rerio, > 1000 mg/l (OECD 203)
ErC50, (72h), Scenedesmus subspicatus, > 1640 mg/l (OECD 201)
Titanium dioxide (<10µm), CAS: 13463-67-7
LC50, (96h), Pimephales promelas, > 1000 mg/l
LC50, (48h), Daphnia magna, > 100 mg/l
EC50, (72h), Pseudokirchneriella subcapitata, 16 mg/l
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
LC50, (96h), Danio rerio, 0.9 mg/L
EC50, (72h), Algae, 1.68 mg/L
NOEC, (21d), Daphnia magna, 1 mg/L
Reaction mass of ethylbenzene and xylene
LC50, (96h), fish, 2.6 mg/L
EC50, (72h), Algae, 1.3 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment.
Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080409*

Contaminated packaging

Contaminated packing should be disposed of as product waste.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances
150102
150104

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 3, 40, 56 a), 74, 75
	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
NATIONAL REGULATIONS (EU):	
- Observe employment restrictions for people	no
- VOC (2010/75/CE)	<7 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
EUH204 Contains isocyanates. May produce an allergic reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
EUH066 Repeated exposure may cause skin dryness or cracking.

H373 May cause damage to organs through prolonged or repeated exposure.
H335 May cause respiratory irritation.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H312+H332 Harmful in contact with skin or if inhaled.
H304 May be fatal if swallowed and enters airways.
H226 Flammable liquid and vapour.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)

Modified position

SECTION 3 been added: Titanium dioxide (<10µm)

SECTION 2 been added: EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

SECTION 2 been added: - - - - - - - - - -
As from 24 August 2023 adequate training is required before industrial or professional use.
- - - - - - - - - -

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 4 been added: Allergic reactions

SECTION 8 been added: Nitrile rubber, >480 min (EN 374-1/-2/-3).

SECTION 9 been added: pasty

SECTION 11 been added: This product contains one or more substances of categorie Carc. 2 (CLP).

SECTION 11 deleted: Does not contain a relevant substance that meets the classification criteria.

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 11 been added: Toxicological data of complete product are not available.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.