



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| NAME OF THE PRODUCT | BOSSFILL Polyurethane joints sealer |
|---------------------|---|
| CODE | 080027 (White, 300ml) 080028 (Grey, 300ml) 080029 (Black,300ml) |
| DISTRIBUTOR | BOSSAUTO INNOVA, S.A. |
| ADRESS | C/ Thomas Edison 16, Apartado de correos 95 |
| CITY | 08430 La Roca del Vallés (Barcelona) |
| PHONE | 938 604 923 |
| FAX | 938 712 336 |
| E-MAIL | info@bossauto.com |
| WEB | www.bossauto.com |

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

A similar mixture has been tested for eye damage/irritation and the test results do not meet the criteria for classification. The carcinogenicity classification for titanium dioxide is not applicable based on physical form (material is not a powder).

Classification:

Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334 Skin Sensitization, Category 1A - Skin Sens. 1A; H317

For full text of H phrases, see Section 16.





2.2. Elementos de la etiqueta

CLP REGULATION (EC) No 1272/2008

- SIGNAL WORD
 DANGER
- Symbols: GHS08 (Health Hazard)
- Pictograms



Ingredients

| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|----------|------------------------|---------------------|
| 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 | 101-68-8 | 202-966-0 915-687-0 | 0,1 - < 1 < 0,15 |

HAZARD STATEMENTS

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS

• Prevention

P261AAvoid breathing vapours.P280EWear protective gloves.

Response

| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
|-----------|--|
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/ |
| | physician. |

SUPPLEMENTAL INFORMATION

• Supplemental Hazard Statements: EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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

2.3. Other hazards

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.





3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not aplicable

3.2. Mixtures

| Ingredient | Identifier(s) | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-----------|--|
| Poly(Vinyl Chloride) | (CAS-No.) 9002- 86-2 (EC-No.) 618-338- 8 | 20 - 50 | Substance with a national occupational exposure limit |
| Reaction mass of ethylbenzene and xylene | (EC-No.) 905-588-0 (REACH-No.) 01- 2119488216-32 | 3 - 8 | Acute Tox. 4, H332 Acute Tox. 4, H312 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 |
| Titanium dioxide | (CAS-No.) 13463-67-7 (EC-No.) 236-675-5 | < 5 | Carc. 2, H351 (inhalation) |
| Triiron tetraoxide | (CAS-No.) 1317-61-9 (EC-No.) 215-277-5 | < 3 | Substance not classified as hazardous |
| Calcium oxide | (CAS-No.) 1305-78-8 (EC-No.) 215-138-9 (REACH-No.) 01- 2119475325-36 | < 3 | EUH071 Skin Corr. 1C,H314 Eye Dam. 1, H318 |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | (EC-No.) 926-141-6 (REACH-No.) 01- 2119456620-43 | 0.5 - 2 | Asp. Tox. 1, H304EUH066 |
| Iron hydroxide oxide yellow | (CAS-No.) 51274-00-1 (EC-No.) 257-098-5 (REACH-No.) 01- 2119457554-33 | < 2 | Substance not classified as hazardous |
| Aluminium | (CAS-No.) 7429-90-5 (EC-No.) 231-072- 3 | < 1.5 | Flam. Sol. 1, H228 Water-react. 2, H261 Nota T |
| 4,4'-methylenediphenyl diisocyanate | (CAS-No.) 101-68-8 (EC-No.) 202-966-0 (REACH-No.) 01- 2119457014-47 | 0,1 - < 1 | |
| Carbon black | (CAS-No.) 1333-86-4 (EC-No.) 215-609-9 (REACH-No.) 01- 2119384822-32 | < 0.5 | Substance with a national occupational exposure limit |





| Reaction mass of Bis | (EC-No.) 915-687-0 | < 0.15 | Aquatic Acute 1, H400, M=1 |
|--------------------------|--------------------|--------|------------------------------|
| (1,2,2,6,6-pentamethyl- | (REACH-No.) 01- | | Aquatic Chronic 1, H410, M=1 |
| 4-piperidyl)sebacate and | 2119491304-40 | | Skin Sens. 1A, |
| Methyl 1,2,2,6,6- | | | H317 |
| pentamethyl-4-piperidyl | | | |
| sebacate | | | |

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.

Please see section 16 for the full text of any H statements referred to in this section

Specific Concentration Limits

| Ingredient | Identifier(s) | Specific Concentration Limits |
|----------------------------|---|---|
| Calcium oxide | (CAS-No.) 1305-78-8 (EC-No.) 215-138-9 (REACH-No.) 01- 2119475325-36 | (C >= 50%)EUH071 (C >= 50%) Skin Corr. 1C, H314 (10% =< C < 50%) Skin Irrit. 2, H315 (C >= 3%) Eye Dam. 1, H318 (1% =< C < 3%) Eye Irrit. 2, H319 (20% =< C < 50%) STOT SE 3, H335 |
| 4,4'- methylenediphenyl | (CAS-No.) 101-68-8 (EC-No.) 202-966-0 | (C >= 5%) Skin Irrit. 2, H315 (C >= 5%) Eye Irrit. 2, H319 |
| diisocyanate | (REACH-No.)01-2119457014- 47 | $(C \ge 0.1\%)$ Resp. Sens.1, H334 $(C \ge 5\%)$ STOT SE 3,H335 |

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention

Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

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

The most important symptoms and effects based on the CLP classification include: Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching).

4.3. Indication of any immediate medical attention and special treatment required Not applicable.





5. Medidas de lucha contra incendios

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products <u>Substance</u>

Carbon monoxide Carbon dioxide. Hydrogen cyanide. Oxides of nitrogen. <u>Condition</u> During combustion. During combustion. During combustion. During combustion.

5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.







7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|----------------------|------------|--------|---|---------------------------|
| Free isocyanates | 101-68-8 | UK HSC | TWA (as NCO):0.02 mg/m3 STEL (as NCO):0.07 mg/m3 | Respiratory Sensitizer |
| Calcium oxide | 1305-78-8 | UK HSC | TWA (respirable fraction): 1 mg/m3 TWA:2 mg/m3 STEL (respirable fraction):4 mg/m3 | |
| Carbon black | 1333-86-4 | UK HSC | TWA: 3.5 mg/m ³ STEL: 7 mg/m ³ | |
| Titanium dioxide | 13463-67-7 | UK HSC | TWA(respirable):4 mg/m3 TWA(Inhalable):10 mg/m3 | |
| Aluminium | 7429-90-5 | UK HSC | TWA(as respirable dust):4 mg/m3 TWA(as inhalable dust):10 mg/m3 | |
| Poly(Vinyl Chloride) | 9002-86-2 | UK HSC | TWA(as respirable dust):4 mg/m3 TWA(as inhalable dust):10 mg/m3 | |

UK HSC : UK Health and Safety Commission TWA: Time-Weighted-Average STEL: Short Term Exposure Limit **CEIL:** Ceiling

Biological limit values

| Ingredient | CAS Nbr | Agency | Determinant | Biological Specimen | Sampling Time | Value | Additional comments |
|-------------|------------|--------|-------------|------------------------|------------------|-----------|---------------------|
| Free | 101- | UK HSC | Isocyanates | Creatinine | EPE | 1umol/mol | |
| isocyanates | 68-8 | | derived | in | | | |
| | | | diamine | urine | | | |

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)

EPE: At the end of the period of exposure.

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from UK HSC

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/ fume/ gas/ mist/ vapours/ spray. If ventilation is not adequate, use respiratory protection equipment.





8.2.2. Personal protective equipment (PPE)

Eye/ face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety glasses with side shields. *Applicable Norms/Standards* Use eye protection conforming to EN 166

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended:

| Material | Thickness (mm) | Breakthrough Time |
|------------------|----------------|-------------------|
| Polymer laminate | >0.3 | > 8 hours |

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards Use gloves tested to EN 374

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Applicable Norms/Standards Use a respirator conforming to EN 140 or EN 136: filter types A & P





9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Physical state | Solid. |
|--|-------------------------------------|
| Specific Physical Form: | Paste |
| Colour | Multicolor |
| Odor | Light Odor |
| Odour threshold | No data available |
| Melting point/freezing point | No data available |
| Boiling point/boiling range | 137 °C |
| Flammability (solid, gas) | Not classified |
| Flammable Limits (LEL) | 0.6 % volume |
| Flammable Limits (UEL) | 7 % volume |
| Flash point | >=75 °C [Test Method:Closed Cup] |
| Autoignition temperature | >=200 °C |
| Decomposition temperature | No data available. |
| рН | substance/mixture reacts with water |
| Kinematic Viscosity | No data available |
| | |
| Water solubility | Immiscible |
| Solubility- non-water | No data available |
| Partition coefficient: n- octanol/ water | No data available. |
| Vapour pressure | No data available. |
| Density | No data available. |
| Relative density | 1.15 [<i>Ref Std</i> :WATER=1] |
| Relative Vapor Density | No data available. |

9.2. Other information.

9.2.1 Other safety characteristics

EU Volatile Organic Compounds: No data available. Evaporation rate: No data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4. Conditions to avoid

Not determined

10.5. Incompatible materials Alcohols. Amines. Strong acids.

This technical data sheet replaces the previous ones Review date: 03/11/2021 www.bossauto.com





Strong bases.

10.6. Hazardous decomposition products

Substance: Carbon dioxide. Condition: Moisture.

Refer to section 5.2 for hazardous decomposition products during combustion.

11. TOXICOLOGICAL INFORMATION

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

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

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/ symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

Skin contact

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion

Gastrointestinal irritation: Signs/ symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Additional Health Effects:

Single exposure may cause target organ effects: Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Prolonged or repeated exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.





Additional information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute toxicity

| Name | Route | Species | Value |
|---|------------------------------------|---------------------------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapour (4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Poly(Vinyl Chloride) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Poly(Vinyl Chloride) | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Reaction mass of ethylbenzene and xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| Reaction mass of ethylbenzene and xylene | Inhalation-Vapour (4 hours) | Rat | LC50 29 mg/l |
| Reaction mass of ethylbenzene and xylene | Ingestion | Rat | LD50 3,523 mg/kg |
| Triiron tetraoxide | Dermal | Not available | LD50 3,100 mg/kg |
| Triiron tetraoxide | Ingestion | Not available | LD50 3,700 mg/kg |
| Titanium dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium dioxide | Inhalation-Dust/ Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Titanium dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Calcium oxide | Ingestion | Rat | LD50 > 2,500 mg/kg |
| Calcium oxide | Dermal | Similar compounds | LD50 > 2,500 mg/kg |
| Aluminium | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Aluminium | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Aluminium | Inhalation-Dust/ Mist (4 hours) | Rat | LC50 > 0.888 mg/l |
| Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | Inhalation-Vapour | Professional judgement | LC50 estimated to be 20 - 50 mg/l |
| Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | Dermal | Rabbit | LD50 > 5,000 mg/kg |





| Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | | | | | | |
|---|--|-----------|--------|------------------------------------|--|--|
| diisocyanateDefinalRabbitLDS0 > 3,000 mg/kg4,4'-methylenediphenyl diisocyanateInhalation-Dust/ Mist (4 hours)RatLC50 0.368 mg/l4,4'-methylenediphenyl diisocyanateIngestionRatLD50 31,600 mg/kgIron hydroxide oxide yellowDermalRatLD50 estimated to be > 5,000 mg/kgIron hydroxide oxide yellowIngestionRatLD50 > 10,000 mg/kgCarbon blackDermalRabbitLD50 > 3,000 mg/kgCarbon blackIngestionRatLD50 > 3,000 mg/kgCarbon blackIngestionRatLD50 > 5,000 mg/kgReaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl sebacateDermalLD50 estimated to be 2,000 - 5,000 mg/kgReaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacateRatLD50 3,125 mg/kg | alkanes, isoalkanes, cyclics, | Ingestion | Rat | LD50 > 5,000 mg/kg | | |
| diisocyanateMist (4 hours)RatLC50 0.368 mg/r4,4'-methylenediphenyl diisocyanateIngestionRatLD50 31,600 mg/kgIron hydroxide oxide yellowDermalLD50 estimated to be > 5,000 mg/kgIron hydroxide oxide yellowIngestionRatLD50 > 10,000 mg/kgIron hydroxide oxide yellowIngestionRatLD50 > 3,000 mg/kgCarbon blackDermalRabbitLD50 > 3,000 mg/kgCarbon blackIngestionRatLD50 > 8,000 mg/kgReaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacateDermalLD50 estimated to be 2,000 - 5,000 mg/kgReaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacateIngestionRatLD50 3,125 mg/kg | | Dermal | Rabbit | LD50 > 5,000 mg/kg | | |
| diisocyanateIngestionRatLD50 31,600 mg/kgIron hydroxide oxide yellowDermalLD50 estimated to be > 5,000 mg/kgIron hydroxide oxide yellowIngestionRatLD50 > 10,000 mg/kgCarbon blackDermalRabbitLD50 > 3,000 mg/kgCarbon blackIngestionRatLD50 > 8,000 mg/kgCarbon blackIngestionRatLD50 > 8,000 mg/kgCarbon blackDermalRatLD50 > 8,000 mg/kgReaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacateDermalLD50 estimated to be 2,000 - 5,000 mg/kgReaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacateIngestionRatLD50 3,125 mg/kg | | | Rat | LC50 0.368 mg/l | | |
| Iron hydroxide oxide yellowDermal5,000 mg/kgIron hydroxide oxide yellowIngestionRatLD50 > 10,000 mg/kgCarbon blackDermalRabbitLD50 > 3,000 mg/kgCarbon blackIngestionRatLD50 > 8,000 mg/kgReaction mass of Bis (1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacateDermalLD50 estimated to be 2,000 - 5,000 mg/kgReaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacateRatLD50 3,125 mg/kg | | Ingestion | Rat | LD50 31,600 mg/kg | | |
| Carbon blackDermalRabbitLD50 > 3,000 mg/kgCarbon blackIngestionRatLD50 > 8,000 mg/kgReaction mass of Bis (1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacateDermalLD50 estimated to be 2,000 - 5,000 mg/kgReaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacateRatLD50 3,125 mg/kg | Iron hydroxide oxide yellow | Dermal | | LD50 estimated to be > 5,000 mg/kg | | |
| Carbon blackIngestionRatLD50 > 8,000 mg/kgReaction mass of Bis (1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacateDermalLD50 estimated to be 2,000 - 5,000 mg/kgReaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacateRatLD50 3,125 mg/kg | Iron hydroxide oxide yellow | Ingestion | Rat | LD50 > 10,000 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 sebacateDermalLD50 estimated to be 2,000 - 5,000 mg/kgReaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacateIngestionRatLD50 3,125 mg/kg | Carbon black | Dermal | Rabbit | LD50 > 3,000 mg/kg | | |
| (1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacateDermalLD50 estimated to be 2,000 - 5,000 mg/kgReaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacateIngestionRatLD50 3,125 mg/kg | Carbon black | Ingestion | Rat | LD50 > 8,000 mg/kg | | |
| Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate | (1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and | Dermal | | | | |
| ATE- acute toxicity estimate | pentamethyl-4-piperidyl | | | 2,000 - 5,000 mg/kg | | |
| ATE - acute toxicity estimate | pentamethyl-4-piperidyl sebacate Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl | Ingestion | Rat | | | |

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-------------------------|---------------------------|
| Poly (Vinyl Chloride) | Professional judgement | No significant irritation |
| Reaction mass of ethylbenzene and xylene | Rabbit | Mild irritant |
| Triiron tetraoxide | Rabbit | No significant irritation |
| Titanium dioxide | Rabbit | No significant irritation |
| Calcium oxide | Human | Corrosive |
| Aluminium | Rabbit | No significant irritation |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Rabbit | Minimal irritation |
| 4,4'-methylenediphenyl diisocyanate | Official classification | Irritant |
| Iron hydroxide oxide yellow | Rabbit | No significant irritation |
| Carbon black | Rabbit | No significant irritation |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl1,2,2,6,6- pentamethyl-4-piperidyl sebacate | Rabbit | No significant irritation |





Serious Eye Damage/Irritation

| Name | Species | Value |
|--|-------------------------|---------------------------|
| Overall product | Rabbit | Mild irritant |
| Reaction mass of ethylbenzene and xylene | Rabbit | Mild irritant |
| Triiron tetraoxide | Rabbit | No significant irritation |
| Titanium dioxide | Rabbit | No significant irritation |
| Calcium oxide | Rabbit | Corrosive |
| Aluminium | Rabbit | No significant irritation |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Rabbit | Mild irritant |
| 4,4'-methylenediphenyl diisocyanate | Official classification | Severe irritant |
| Iron hydroxide oxide yellow | Rabbit | No significant irritation |
| Carbon black | Rabbit | No significant irritation |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|--|-------------------------|----------------|
| Triiron tetraoxide | Human | Not classified |
| Titanium dioxide | Human and animal | Not classified |
| Aluminium | Guinea pig | Not classified |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Guinea pig | Not classified |
| 4,4'-methylenediphenyl diisocyanate | Official classification | Sensitising |
| Iron hydroxide oxide yellow | Human and animal | Not classified |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate | Guinea pig | Sensitising |

Respiratory Sensitisation

| Name | Species | Value |
|-------------------------------------|---------|----------------|
| Aluminium | Human | Not classified |
| 4,4'-methylenediphenyl diisocyanate | Human | Sensitising |





Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| Poly(Vinyl Chloride) | In Vitro | Not mutagenic |
| Reaction mass of ethylbenzene and xylene | In Vitro | Not mutagenic |
| Reaction mass of ethylbenzene and xylene | In vivo | Not mutagenic |
| Triiron tetraoxide | In Vitro | Not mutagenic |
| Titanium dioxide | In Vitro | Not mutagenic |
| Titanium dioxide | In vivo | Not mutagenic |
| Calcium oxide | In Vitro | Not mutagenic |
| Aluminium | In Vitro | Not mutagenic |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | In Vitro | Not mutagenic |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | In vivo | Not mutagenic |
| 4,4'-methylenediphenyl diisocyanate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Carbon black | In Vitro | Not mutagenic |
| Carbon black | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---|----------------|-------------------------------|---|
| Poly(Vinyl Chloride) | Not specified. | Rat | Some positive data exist, but the data are not sufficient for classification |
| Reaction mass of ethylbenzene and xylene | Dermal | Rat | Not carcinogenic |
| Reaction mass of ethylbenzene and xylene | Ingestion | Multiple animal species | Not carcinogenic |
| Reaction mass of ethylbenzene and xylene | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Triiron tetraoxide | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Titanium dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium dioxide | Inhalation | Rat | Carcinogenic. |
| Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not available | Not carcinogenic |





| 4,4'-methylenediphenyl diisocyanate | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
|--|------------|-------|---|
| Iron hydroxide oxide yellow | Inhalation | Rat | Not carcinogenic |
| Carbon black | Dermal | Mouse | Not carcinogenic |
| Carbon black | Ingestion | Mouse | Not carcinogenic |
| Carbon black | Inhalation | Rat | Carcinogenic. |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|-------------------|---|-------------------------------|------------------------|--------------------------|
| Poly(Vinyl Chloride) | Not specified. | Not classified for development | Mouse | NOAEL Not available | during gestation |
| Reaction mass of ethylbenzene and xylene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Reaction mass of ethylbenzene and xylene | Ingestion | Not classified for development | Mouse | NOAEL Not available | during organogenesis |
| Reaction mass of ethylbenzene and xylene | Inhalation | Not classified for development | Multiple animal species | NOAEL Not available | during gestation |
| Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for female reproduction | Rat | NOAEL Not available | 1 generation |
| Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for male reproduction | Rat | NOAEL Not available | 1 generation |
| Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for development | Rat | NOAEL Not available | 1 generation |
| 4,4'- methylenediphenyl diisocyanate | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |

Lactation

| Name | Route | Species | Value |
|--|-----------|---------|--|
| Reaction mass of ethylbenzene and xylene | Ingestion | Mouse | Not classified for effects on or via lactation |





Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target | Value | Species | Test result | Exposure Duration |
|---|------------|--|--|---------------------------------|---------------------------|------------------------------|
| Reaction mass of ethylbenzene and xylene | Inhalation | Organ(s) auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| Reaction mass of ethylbenzene and xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Inhalation | eyes | Not classified | Rat | NOAEL 3.5 mg/l | not available |
| Reaction mass of ethylbenzene and xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Ingestion | eyes | Not classified | Rat | NOAEL 250 mg/kg | not applicable |
| Calcium oxide | Inhalation | respiratory irritation | May cause respiratory irritation | Not available | NOAEL Not available | Ocupa- tional exposure |
| 4,4'- methylenedip henyl diisocyanate | Inhalation | respiratory irritation | May cause respiratory irritation | official classifi- cation | NOAEL Not available | |





Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|--|---|-------------------------------|---------------------------------|----------------------|
| Poly(Vinyl Chloride) | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 0.013 mg/l | 22 months |
| Reaction mass of ethylbenzene and xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| Reaction mass of ethylbenzene and xylene | Inhalation | auditory system | May cause damage to organs though prolon- ged or repeated exposure | Rat | LOAEL 7.8 mg/l | 5 days |
| Reaction mass of ethylbenzene and xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| Reaction mass of ethylbenzene and xylene | Inhalation | heart endocrine system gastrointest inal tract hematopoie tic system muscles kidney and/or bladder respiratory | Not classified | Multiple animal species | NOAEL 3.5 mg/l | 13 weeks |
| Reaction mass of ethylbenzene and xylene | Ingestion | system auditory system | Not classified | Rat | NOAEL 900 mg/kg/ day | 2 weeks |
| Reaction mass of ethylbenzene and xylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/ day | 90 days |
| Reaction mass of ethylbenzene and xylene | Ingestion | liver | Not classified | Multiple animal species | NOAEL Not available | |





| Reaction mass of ethylbenzene and xylene | Ingestion | heart skin endocrine system bone, teeth, nails, and/or hair hematopoieti c system immune system nervous system respiratory system | Not classified | Mouse | NOAEL 1,000 mg/kg/da Y | 103 weeks |
|---|------------|--|---|-------|---------------------------------|------------------------------|
| Triiron tetraoxide | Inhalation | pulmonary fibrosis pneumoconio- sis | Not classified | Human | NOAEL Not available | Ocupa- tional exposure |
| Titanium dioxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium dioxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | Ocupa- tional exposure |
| Aluminium | Inhalation | nervous system respiratory system | Not classified | Human | NOAEL Not available | Ocupa- tional exposure |
| 4,4'- methylenedip henyl diisocyanate | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| Iron hydroxide oxide yellow | Inhalation | respiratory system liver kidney and/or bladder | Not classified | Rat | NOAEL 0.2 mg/l | 14 days |
| Carbon black | Inhalation | Pneumoconio- sis | Not classified | Human | NOAEL Not available | occupati onal exposure |





Aspiration Hazard

| Name | Value |
|---|-------------------|
| Reaction mass of ethylbenzene and xylene | Aspiration hazard |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, | Aspiration hazard |
| cyclics, <2% aromatics | |

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

12. ECOLOGICAL INFORMATION

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. ToxiciTY

No product test data available.

| Material | CAS # | Organism | Туре | Exposure | Test endpoint | Test result |
|--|------------|---------------------|--|----------|------------------|---------------------|
| Poly(Vinyl Chloride) | 9002-86-2 | | Data not available or insufficient for classification | | | N/A |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Green Algae | Estimated | 73 hours | EC50 | 1.3 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Rainbow trout | Estimated | 96 hours | LC50 | 2.6 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Water flea | Estimated | 24 hours | IC50 | 1 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Green Algae | Estimated | 73 hours | NOEC | 0.44 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Rainbow trout | Estimated | 56 days | NOEC | >1.3 mg/l |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Water flea | Estimated | 7 days | NOEC | 0.96 mg/l |
| Titanium dioxide | 13463-67-7 | Activated sludge | Experimental | 3 hours | NOEC | >= 1,000 mg/l |





| BOSSOU | | | t: +3493 | a Roca del Valles. Bar 38604923/f:+3493 3ssauto.com/www.bc | 8712336 | None Off |
|---|------------|---------------------|--------------|--|---|------------------|
| | | 1 | | | | |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | EC50 | >10,00 0 mg/l |
| Titanium dioxide | 13463-67-7 | Fathead minnow | Experimental | 96 hours | LC50 | >100 mg/l |
| Titanium dioxide | 13463-67-7 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | NOEC | 5,600 |
| Calcium oxide | 1305-78-8 | Common | Experimental | 96 hours | LC50 | mg/l 1,070 |
| Triiron tetraoxide | 1317-61-9 | Carp Bacteria | Experimental | 6 hours | EC50 | mg/l >50,00 |
| Triiron tetraoxide | 1317-61-9 | Green | Experimental | 72 hours | EC50 | 0 mg/l >50,00 |
| Triiron tetraoxide | 1317-61-9 | Algae Water flea | Experimental | 48 hours | EC50 | 0 mg/l >50,00 |
| Triiron tetraoxide | 1317-61-9 | Green | Experimental | 72 hours | EC0 | 0 mg/l >50,00 |
| Iron hydroxide oxide | 51274-00-1 | Algae Activated | Estimated | 3 hours | EC50 | 0 mg/l >= |
| yellow | 51271001 | sludge | Estimated | | 2000 | 10,000 mg/l |
| Iron hydroxide oxide yellow | 51274-00-1 | Water flea | Experimental | 48 hours | No tox obs at Imt of water sol | >100 mg/l |
| Iron hydroxide oxide yellow | 51274-00-1 | Zebra Fish | Experimental | 96 hours | No tox obs at Imt of water sol | >100 mg/l |
| Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Green Algae | Experimental | 72 hours | EL50 | >1,000 mg/l |
| Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Rainbow trout | Experimental | 96 hours | LL50 | >1,000 mg/l |
| Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Water flea | Experimental | 48 hours | EL50 | >1,000 mg/l |
| Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Green Algae | Experimental | 72 hours | NOEL | 1,000 mg/l |
| Aluminium | 7429-90-5 | Fish other | Experimental | 96 hours | No tox obs at Imt of water sol | >100 mg/l |







| | | | | ssauto.com/ www.bc | 558010.0011 | 1006 O.S. |
|---|-----------|---------------------|---|--------------------|---|----------------|
| Aluminium | 7429-90-5 | Green Algae | Experimental | 72 hours | No tox obs at Imt of water sol | >100 mg/l |
| Aluminium | 7429-90-5 | Water flea | Experimental | 48 hours | No tox obs at Imt of water sol | >100 mg/l |
| Aluminium | 7429-90-5 | Green Algae | Experimental | 72 hours | No tox obs at Imt of water sol | 100 mg/l |
| Aluminium | 7429-90-5 | Water flea | Experimental | 21 days | NOEC | 0.076 mg/l |
| 4,4'- methylenediphenyl diisocyanate | 101-68-8 | Activated sludge | Estimated | 3 hours | EC50 | >100 mg/l |
| 4,4'- methylenediphenyl diisocyanate | 101-68-8 | Green algae | Estimated | 72 hours | EC50 | >1,640 mg/l |
| 4,4'- methylenediphenyl diisocyanate | 101-68-8 | Water flea | Estimated | 24 hours | EC50 | >1,000 mg/l |
| 4,4'- methylenediphenyl diisocyanate | 101-68-8 | Zebra Fish | Estimated | 96 hours | LC50 | >1,000 mg/l |
| 4,4'- methylenediphenyl diisocyanate | 101-68-8 | Green algae | Estimated | 72 hours | NOEC | 1,640 mg/l |
| 4,4'- methylenediphenyl diisocyanate | 101-68-8 | Water flea | Estimated | 21 days | NOEC | 10 mg/l |
| Carbon black | 1333-86-4 | Activated sludge | Experimenta I | 3 hours | EC50 | >=100 mg/l |
| Carbon black | 1333-86-4 | | Data not available or insufficient for classification | | | N/A |
| Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4- piperidyl sebacate | 915-687-0 | Activated sludge | Experimenta I | 3 hours | IC50 | >=100 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 | 915-687-0 | Green algae | Experimenta I | 72 hours | EC50 | 1.68 mg/l |





| | | | | 3360.0011 | | |
|---|-----------|----------------|--------------|-----------|------|--------------|
| Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- | 915-687-0 | Zebra Fish | Experimental | 96 hours | LC50 | 0.9 mg/l |
| pentamethyl-4- | | | | | | |
| piperidyl sebacate | | | | | | |
| Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl | 915-687-0 | Green algae | Experimental | 72 hours | NOEC | 0.22 mg/l |
| 1,2,2,6,6- pentamethyl-4- | | | | | | |
| piperidyl sebacate | | | | | | |
| Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- | 915-687-0 | Water flea | Experimental | 21 days | NOEC | 1 mg/l |

12.2. Persistence and degradability

| | and degradad | | | Charles | Test | Durate and |
|--------------------|--------------|--------------|-------|------------|----------|--------------|
| Material | CAS Nbr | Test type | Dura- | Study | Test | Protocol |
| | | | tion | Туре | result | |
| Poly(Vinyl | 9002-86-2 | Data not | | | N/A | |
| Chloride) | | availbl- | | | | |
| | | insufficient | | | | |
| Reaction mass | 905-588-0 | Experimen | 28 | BOD | 98 % | OECD 301F - |
| ofethylbenzene | | tal | days | | BOD/ | Manometric |
| and | | Biodegrada | | | ThBOD | respirometry |
| xylene | | tion | | | | |
| Titanium dioxide | 13463-67-7 | Data not | | | N/A | |
| | | availbl- | | | | |
| _ | | insufficient | | | | |
| Calcium oxide | 1305-78-8 | Data not | | | N/A | |
| | | availbl- | | | | |
| | | insufficient | | | | |
| Triiron tetraoxide | 1317-61-9 | Data not | | | N/A | |
| | | availbl- | | | | |
| | | insufficient | | | | |
| Iron hydroxide | 51274-00-1 | Data not | | | N/A | |
| oxide yellow | | availbl- | | | | |
| | | insufficient | | | | |
| Hydrocarbons | 926-141-6 | Experimen | 28 | BOD | 69 % | OECD 301F - |
| ,C11-C14, n- | | tal | days | | BOD/ | Manometric |
| alkanes, | | Biodegrada | | | ThBOD | respirometry |
| isoalkanes, | | tion | | | | |
| cyclics, <2% | | | | | | |
| aromatics | | | | | | |
| Aluminium | 7429-90-5 | Data not | | | N/A | |
| | | availbl- | | | | |
| | | insufficient | | | | |
| 4,4'- | 101-68-8 | Estimated | | Hydrolytic | 20 hours | Non-standard |
| methylenediphen | | Hydrolysis | | half-life | (t 1/2) | method |
| yl diisocyanate | | | | | | |







| BOSSOL | | | | | 3/ f: +34938712336 m/ www.bossauto.co | 100e 081 m |
|---|-----------|--------------------------------------|------------|---|--|--------------------------------------|
| Carbon black | 1333-86-4 | Data not availbl- insufficient | | | N/A | |
| Reaction mass of Bis (1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4- piperidyl sebacate | 915-687-0 | Estimated Biodegrada tion | 28 days | Dissolv. Organic Carbon Deplet | 38 % weight | OECD 301E - Modif. OECD Screen |

12.3. Potencial de bioacumulación.

| Material | Cas No. | Test type | Dura | Study | Test | Protocol |
|---|------------|---|------------|--------------------------------|--------|------------------------|
| | | | -tion | Туре | result | |
| Poly(Vinyl Chloride) | 9002-86-2 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Reaction mass of ethylbenzene and xylene | 905-588-0 | Experimental BCF - Rainbow Trout | 56 days | Bioaccumu -lation factor | 25.9 | Non-standard method |
| Titanium dioxide | 13463-67-7 | Experimental BCF- Carp | 42 days | Bioaccumu -lation factor | 9.6 | Non-standard method |
| Calcium oxide | 1305-78-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Triiron tetraoxide | 1317-61-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Iron hydroxide oxide yellow | 51274-00-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrocarbons , C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |



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|---|-----------|--|------------|--------------------------------|-------|---|
| Aluminium | 7429-90-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 4,4'- methylenediphe nyl diisocyanate | 101-68-8 | Experimental BCF- Carp | 28 days | Bioaccu- mulation factor | 200 | OECD 305E - Bioaccum ulation flow- through fish test |
| Carbon black | 1333-86-4 | Data not available or insufficient for classificatio n | N/A | N/A | N/A | N/A |
| Reaction mass of Bis (1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4- piperidyl sebacate | 915-687-0 | Estimated BCF- Carp | 56 days | Bioaccu- mulation factor | 31.4 | |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|--|-----------|-------------------------------|---------------|-----------------|-----------|
| 4,4'- methylenediphenyl diisocyanate | 101-68-8 | Estimated Mobility in Soil | Кос | 34,000 l/kg | Episuite™ |
| Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4- piperidyl sebacate | 915-687-0 | Estimated Mobility in Soil | Кос | 200,000 l/kg | Episuite™ |

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. Other adverse effects

No information available.





13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

Dispose of waste product in a permitted industrial waste facility. Empty drums/ barrels/ containers used for transporting and handling hazardous chemicals (chemical substances/ mixtures/ preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/ 532/ CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

EU waste code (product as sold)

08 04 09*

Waste adhesives and sealants containing organic solvents or other dangerous substances

14. TRANSPORTATION INFORMATION

Not regulated for transportation.

15. REGULATORY INFORMATION

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

Carcinogenicity

| Ingredient | CAS Nbr | <u>Classification</u> | Regulation |
|----------------------|------------|------------------------------|--------------------------|
| Carbon black | 1333-86-4 | Grp. 2: | International Agency for |
| | | Possible human carc. | Research on Cancer |
| 4,4'- | 101-68-8 | Carc. 2 | Regulation (EC) No. |
| methylenediphenyl | | | 1272/2008, Table 3.1 |
| diisocyanate | | | |
| 4,4'- | 101-68-8 | Gr. 3: | International Agency for |
| methylenediphenyl | | Not classifiable | Research on Cancer |
| diisocyanate | | | |
| Poly(Vinyl Chloride) | 9002-86-2 | Gr. 3: | International Agency for |
| | | Not classifiable | Research on Cancer |
| Titanium dioxide | 13463-67-7 | Grp. 2: | International Agency for |
| | | Possible human carc. | Research on Cancer |





Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

Ingredient

CAS Nbr

4,4'-methylenediphenyl diisocyanate 101-68-8

Restriction status: listed in REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

16. OTHER INFORMATION

List of relevant H statements

| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|--|
| EUH071 | Corrosive to the respiratory tract. |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H261 | In contact with water releases flammable gas. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| 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. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H351i | Suspected of causing cancer by inhalation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
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Revision information:

CLP: Ingredient table information was modified.

Section 3: Composition/ Information of ingredients table information was modified.

Section 8: Occupational exposure limit table information was modified.

- Section 11: Acute Toxicity table information was modified.
- Section 11: Carcinogenicity Table information was modified.
- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: Serious Eye Damage/Irritation Table information was modified.
- Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was modified.

- Section 11: Target Organs Repeated Table information was modified.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Persistence and Degradability information information was modified.





Section 12:Bioccumulative potential information information was modified. Section 15: Carcinogenicity information information was modified. Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

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