according to the Hazardous Products Regulations



REPLAST EASY 10 MIN, Component B

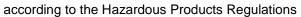
| Ver 4.0 | sion | Revision Date: 12/18/2023 | | 0S Number: 35444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 |
|------------|--------------------------|------------------------------|------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| SEC | CTION 1 | . IDENTIFICATION | | | |
| | Produc | et name | : | REPLAST EASY | 10 MIN, Component B |
| | Produc | et code | : | 893.50008B | |
| | Other r | means of identification | : | No data available | |
| | Manuf | acturer or supplier's o | deta | nils | |
| | Compa | any name of supplier | : | Würth Canada Lir | nited |
| | Addres | S | : | 345 Hanlon Creek GUELPH, ON N1 | |
| | Teleph | one | : | +1 (905) 564 622 | 5 |
| | Telefax | ĸ | : | +1 (905) 564 367 | 1 |
| | Emerg | ency telephone | : | CHEMTREC (24/ Transport related | olving a spill, fire, explosion or exposure: 7): 1-800-424-9300 emergencies: : 1-613-996-6666 or * 666 (cell) |
| | | | | exposition: CHEMTREC (24/ Urgences liées au | ant un déversement, incendie, explosion ou 7): 1-800-424-9300 u transport: : 1-613-996-6666 ou * 666 (cellulaire) |
| | E-mail | address | : | prodsafe@wurth.o | ca |
| | Recommended use of the c | | | nical and restriction | ons on use |
| | Recom | mended use | : | Adhesives | |
| | Restric | tions on use | : | Not applicable | |

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

| Acute toxicity (Inhalation) | : | Category 4 |
|-----------------------------|---|----------------|
| Skin irritation | : | Category 2 |
| Eye irritation | : | Category 2A |
| Respiratory sensitization | : | Category 1 |
| Skin sensitization | : | Sub-category 1 |
| | | |

А





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| (| Carcinc | ogenicity | : | Category 2 | |
| | | c target organ toxicity exposure | : | Category 3 | |
| - | | c target organ toxicity ted exposure (Inhala- | : | Category 2 (Resp | biratory Tract) |
| (| GHS la | bel elements | | | |
| ł | Hazard | pictograms | : | | !> |
| ę | Signal \ | Word | : | Danger | |
| ł | Hazard | Statements | : | H319 Causes ser H332 Harmful if i H334 May cause culties if inhaled. H335 May cause H351 Suspected H373 May cause | an allergic skin reaction. ious eye irritation. |
| I | Precau | tionary Statements | : | Prevention: | |
| | | | | P201 Obtain sper P202 Do not han and understood. P260 Do not brea P264 Wash skin P271 Use only of P272 Contaminant the workplace. | |
| | | | | Response: | |
| | | | | P304 + P340 + P and keep comfor unwell. P305 + P351 + P for several minute to do. Continue ri P308 + P313 IF e | DN SKIN: Wash with plenty of water. 312 IF INHALED: Remove person to fresh air table for breathing. Call a doctor if you feel 338 IF IN EYES: Rinse cautiously with water es. Remove contact lenses, if present and easy nsing. exposed or concerned: Get medical attention. kin irritation or rash occurs: Get medical atten- |

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| | | P342 + P311 If tor. | eye irritation persists: Get medical attention. experiencing respiratory symptoms: Call a doc- ake off contaminated clothing and wash it before |
| | | Storage: P403 + P233 S tightly closed. P405 Store loc | Store in a well-ventilated place. Keep container ked up. |
| | | Disposal: P501 Dispose | of contents and container to an approved waste |

Other hazards

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

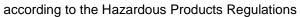
disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | Common Name/Synonym | CAS-No. | Concentration (% w/w) |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|
| 4,4'-Diphenylmethane diisocyanate | Benzene, 1,1'- methylenebis[4- isocyanato- | 101-68-8 | >= 10 - < 30 * |
| Diphenylmethane diisocyanate, isomers and homologues | Polymethylene polyphenyl poly- isocyanate | 9016-87-9 | >= 10 - < 30 * |
| Talc | Talc (Mg3H2(SiO3)4) | 14807-96-6 | >= 10 - < 30 * |
| Diphenylmethane 2,4'- Diisocyanate | o-(p- isocyanatoben- zyl)phenyl iso- cyanate | 5873-54-1 | >= 5 - < 10 * |
| 2,2'-Methylenediphenyl diisocyanate | Benzene, 1,1'- methylenebis[2- isocyanato- | 2536-05-2 | >= 1 - < 5 * |
| Silicon dioxide | Silica | 7631-86-9 | >= 1 - < 5 * |
| Hydroxyalkanoic acid, compd. with aminohet- erocycle polymer with hydroxyalkanoic acid, alkyltriamine, lactone and lactone | Octadecanoic acid, 12- hydroxy- ,compd. with aziridine poly- mer with N1-(2- aminoethyl)-1,2- ethanediamine, 12- | 1309457-61-1 | >= 1 - < 5 * |





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|---------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------|---|--|--|
| | | hydroxyoctade- canoic acid, | | | | | |
| 4- Isocyanatosulpho- nyltoluene Methylenediphenyl diisocyanate, oligo- mers, reaction prod- ucts with 2-ethylhexan- | | Benzenesulfonyl isocyanate, 4- methyl- | 4083-64-1 | >= 0.1 - < 1 | * | | |
| | | Isocyanic acid, polymethylene- polyphenylene ester, 2-ethyl-1- hexanol-blocked | 147993-65 | -5 >= 0.1 - < 1 | * | | |
| Tributyl phosphate | | Phosphoric acid tributyl ester | 126-73-8 | >= 0.1 - < 1 | * | | |
| | | Benzenesulfonyl chloride, 4- methyl- | 98-59-9 | >= 0.1 - < 1 | * | | |

SECTION 4. FIRST AID MEASURES

| General advice | In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice. | |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| If inhaled | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. | |
| In case of skin contact | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. | |
| In case of eye contact | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. | • |
| If swallowed | If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. | |
| Most important symptoms and effects, both acute and delayed | Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause respiratory irritation. Suspected of causing cancer. | |



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| | | exposure if Respiratory delayed. Excessive e other respira | damage to organs through prolonged or repeated inhaled. symptoms, including pulmonary edema, may be exposure may aggravate preexisting asthma and atory disorders (e.g. emphysema, bronchitis, reac- dysfunction syndrome). |
| Protection of first-aiders | | and use the | ponders should pay attention to self-protection, recommended personal protective equipment otential for exposure exists (see section 8). |
| Note | es to physician | : Treat sympt | omatically and supportively. |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Water spray in large fire situations |
|------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire fighting | : | Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. |
| Hazardous combustion prod- ucts | : | Hydrogen cyanide (hydrocyanic acid) Isocyanates Carbon oxides Nitrogen oxides (NOx) Cyanides |
| Specific extinguishing meth- ods | : | Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | : | Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8). |
|-------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | : | Avoid release to the environment. |

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| | | Prev oil ba Reta Loca | ent spreading arriers). in and dispos | akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages ned. |
| Methods and materials for containment and cleaning up | | For la ment pump Clea bent After do no Loca sal o ploye whic Secti | arge spills, pi to keep mat bed, store red n up remainin approximate ot seal, due t l or national f this materia ed in the clea h regulations ions 13 and 1 | t absorbent material. rovide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. ng materials from spill with suitable absor- ely one hour, transfer to waste container and o evolution of carbon dioxide. regulations may apply to releases and dispo- il, as well as those materials and items em- nup of releases. You will need to determine are applicable. 15 of this SDS provide information regarding ational requirements. |

S EC 2210

| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
|-----------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust ventilation. |
| Advice on safe handling | : | Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Keep away from water. Protect from moisture. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitizers. Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : | Keep in properly labeled containers. Store locked up. Protect from moisture. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. |

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| Mater | rials to avoid | : Do not store | with the following product types: |

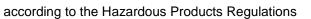
Gases

Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|-----------------------------------------------------------|------------|-----------------------------------------------|--------------------------------------------------------|-----------|
| 4,4'-Diphenylmethane diisocy- anate | 101-68-8 | TWA | 0.005 ppm | CA BC OEL |
| | | С | 0.01 ppm | CA BC OEL |
| | | TWA | 0.005 ppm | CA ON OEL |
| | | С | 0.02 ppm | CA ON OEL |
| | | TWAEV | 0.005 ppm 0.051 mg/m³ | CA QC OEL |
| | | TWA | 0.005 ppm | ACGIH |
| Diphenylmethane diisocyana- te, isomers and homologues | 9016-87-9 | TWA | 0.005 ppm 0.07 mg/m³ | CA AB OEL |
| | | TWAEV | 0.005 ppm 0.051 mg/m³ | CA QC OEL |
| | | TWA | 0.005 ppm | CA BC OEL |
| | | С | 0.01 ppm | CA BC OEL |
| | | TWA | 0.005 ppm | ACGIH |
| Talc | 14807-96-6 | TWAEV (respirable dust) | 2 mg/m³ | CA QC OEL |
| | | TWA (Res- pirable par- ticulates) | 2 mg/m³ | CA AB OEL |
| | | TWA (Res- pirable) | 2 mg/m ³ | CA BC OEL |
| | | TWA | 2 fibres per cubic centimeter | CA ON OEL |
| | | TWA (Res- pirable frac- tion) | 2 mg/m ³ | CA ON OEL |
| | | TWA (Respi- rable particu- late matter) | 2 mg/m³ | ACGIH |
| Diphenylmethane 2,4'- Diisocyanate | 5873-54-1 | С | 0.02 ppm 0.2 mg/m ³ | OSHA Z-1 |
| | | TWA | 0.005 ppm 0.05 mg/m ³ | NIOSH REL |
| | | С | 0.02 ppm 0.2 mg/m ³ | NIOSH REL |
| | | TWA | 0.005 ppm | ACGIH |
| 2,2'-Methylenediphenyl diiso- cyanate | 2536-05-2 | TWA | 0.005 ppm | CA BC OEL |





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|-------------|----------|--------------------------------------------------------------------------|------------------------------|------------------------------------------------------|--------------------------------------------|-----------|
| | | | | С | 0.01 ppm | CA BC OEL |
| | | | | TWA | 0.005 ppm | ACGIH |
| | Silicon | dioxide | 7631-86-9 | TWAEV (respirable dust) | 6 mg/m³ | CA QC OEL |
| | te, olig | enediphenyl diisocyana- omers, reaction produ- n 2-ethylhexan-l-ol | 147993-65-5 | TWAEV | 0.005 ppm 0.051 mg/m³ | CA QC OEL |
| | | | | TWA | 0.005 ppm | CA BC OEL |
| | | | | С | 0.01 ppm | CA BC OEL |
| | Tributy | l phosphate | 126-73-8 | TWA | 0.2 ppm 2.2 mg/m³ | CA AB OEL |
| ĺ | | | | TWA | 0.2 ppm | CA BC OEL |
| | | | | TWAEV (in- halable frac- tion and va- pour) | 5 mg/m ³ | CA QC OEL |
| | | | | TWA (Inha- lable fraction and vapor) | 5 mg/m³ | ACGIH |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sam- pling time | Permissible concentra- tion | Basis |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------|-----------------------|-----------------------|----------------------------------------|--------------|
| Tributyl phosphate | 126-73-8 | Acetylcholi- nesterase activity | In red blood cells | End of shift | 70 % of an individual's baseline | ACGIH BEI |
| | | Butyrylcho- linesterase activity | In serum or plasma | End of shift | 60 % of an individual's baseline | ACGIH BEI |
| Engineering measures : Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhibition. | | | | | | |
| Personal protective equ | ipment | | | | | |
| Respiratory protection | sur | dequate local re assessment nmended guid | demonstrate | es exposure | es outside the | |
| Filter type | : Co | mbined particu | lates and or | ganic vapo | r type | |
| Hand protection Material Break through time Glove thickness | | A 300 min 0.08 mm | | | | |
| Remarks | : Ch | oose gloves to | protect han | ds against o | chemicals dep | ending |

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| | | applications, with micals of the a | ntration specific to place of work. For special we recommend clarifying the resistance to che- aforementioned protective gloves with the glove . Wash hands before breaks and at the end of |
| Eye p | protection | : Wear the follo Safety goggle | wing personal protective equipment: s |
| Skin a | and body protection | resistance da potential. Skin contact r | priate protective clothing based on chemical ta and an assessment of the local exposure must be avoided by using impervious protective es, aprons, boots, etc). |
| Hygie | ene measures | eye flushing s king place. When using d Contaminated workplace. | chemical is likely during typical use, provide systems and safety showers close to the wor- lo not eat, drink or smoke. I work clothing should not be allowed out of the inated clothing before re-use. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | liquid |
|-----------------------------------------|---|--------------------|
| Color | : | light green |
| Odor | : | mild |
| Odor Threshold | : | No data available |
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | 200 °C |
| Flash point | : | > 93.4 °C |
| | | Method: closed cup |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |

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| | Flamma | ability (liquids) | : | No data available | 9 |
| | | explosion limit / Upper bility limit | : | No data available | |
| | | explosion limit / Lower bility limit | : | No data available | |
| | Vapor p | pressure | : | 3 hPa (25 °C) | |
| | Relative | e vapor density | : | No data available | |
| | Density | , | : | 1.26 g/cm³ (25 °C | C) |
| | Solubili Wat | ty(ies) er solubility | : | No data available |) |
| | Partitio octanol | n coefficient: n- /water | : | Not applicable | |
| | Autoigr | nition temperature | : | No data available |) |
| | Decom | position temperature | : | No data available | |
| | Viscosi Visc | ty cosity, kinematic | : | No data available |) |
| | Explosi | ve properties | : | Not explosive | |
| | | ng properties | : | | r mixture is not classified as oxidizing. |
| | Particle | e size | : | Not applicable | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | Not classified as a reactivity hazard. |
|-----------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical stability | : | Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions. Polymerizes at high temperatures with evolution of carbon dioxide. |
| Possibility of hazardous reac- tions | : | Vapors may form explosive mixture with air. Isocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact; the- se reactions can become violent. Contact is increased by stir- ring or if the other material mixes with the isocyanate. Exothermic reaction with acids, amines and alcohols Reacts with water to form carbon dioxide and heat Isocyanates are not soluble in water and sink to the bottom, but react slowly at the interface. The reaction forms carbon |

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| | | | d a layer of solid polyurea. composition products will be formed upon con- or humid air. |
| Cond | itions to avoid | : Exposure to m | oisture. |
| Incon | npatible materials | : Oxidizing agen Acids Bases Water Alcohols Amines Ammonia Aluminum Zinc Brass Tin Copper Galvanized me Humid air | |
| Haza | rdous decomposition | : No hazardous | decomposition products are known. |

products

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Harmful if inhaled.

Product:

| Acute oral toxicity | : | Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method |
|---------------------------|---|----------------------------------------------------------------------------------------------------------------------|
| Acute inhalation toxicity | : | Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations. |
| | | Acute toxicity estimate: 2.31 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method |

Components:

| 4,4'-Diphenylmethane | diisocyanate: |
|----------------------|---------------|
|----------------------|---------------|

| Acute oral toxicity : | LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral tox- icity |
|-----------------------|---------------------------------------------------------------------------------------------------|
|-----------------------|---------------------------------------------------------------------------------------------------|

SAFETY DATA SHEET according to the Hazardous Products Regulations



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| | | Remarks: Based on data from similar materials |
| Acute | inhalation toxicity | LC50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 |
| Acute | dermal toxicity | : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials |
| Diphe | enylmethane diisocy | anate, isomers and homologues: |
| Acute | oral toxicity | : LD50 (Rat): > 5,000 mg/kg |
| Acute | inhalation toxicity | LC50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 |
| Acute | dermal toxicity | LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity |
| Talc: | | |
| Acute | oral toxicity | : LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials |
| Diphe | enylmethane 2,4'-Dii | socyanate: |
| Acute | oral toxicity | LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral tox icity Remarks: Based on data from similar materials |
| Acute | inhalation toxicity | : LC50 (Rat): 0.515 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 |
| Acute | dermal toxicity | : LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials |
| 2,2'-N | lethylenediphenyl d | iisocyanate: |
| | oral toxicity | : LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials |
| Acute | inhalation toxicity | : LC50 (Rat, male): 0.527 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 |
| Acute | dermal toxicity | : LD50 (Rabbit): > 9,400 mg/kg Remarks: Based on data from similar materials |
| | | |

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| | | | | | |
| Silico | on dioxide: | | | | |
| Acute | oral toxicity | | LD50 (Rat): > Method: OEC | 5,000 mg/kg D Test Guideline 401 | |
| Acute | Acute inhalation toxicity | | LC50 (Rat): > Exposure time Test atmosphe Assessment: T tion toxicity | e: 4 h | |
| Acute | dermal toxicity | : | LD50 (Rabbit) | : > 5,000 mg/kg | |
| | oxyalkanoic acid, co riamine, lactone and | | | terocycle polymer with hydroxyalkanoic acid | |
| Acute | oral toxicity | : | LD50 (Mouse) | : 400 - 2,000 mg/kg | |
| Acute | dermal toxicity | : | LD50 (Rat): > | 2,000 mg/kg | |
| 4-Isoc | cyanatosulphonylto | luene: | | | |
| Acute oral toxicity | | | LD50 (Rat): 2,330 mg/kg Remarks: Based on data from similar materials | | |
| Acute dermal toxicity | | | LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity Remarks: Based on data from similar materials | | |
| Methy | ylenediphenyl diisoo | yanate | , oligomers, ı | reaction products with 2-ethylhexan-l-ol: | |
| Acute | oral toxicity | | LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 423 | | |
| Acute | inhalation toxicity | | Exposure time Test atmosphe Method: Expe | ere: dust/mist | |
| Acute | dermal toxicity | | | : > 5,000 mg/kg ed on data from similar materials | |
| Tribu | tyl phosphate: | | | | |
| Acute | oral toxicity | : | LD50 (Rat): 1, | 552 mg/kg | |
| Acute inhalation toxicity | | | LC50 (Rat): > Exposure time Test atmosphe Method: OEC | e: 4 h | |

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|-------------|------------------------------|---------------------------------------------------------------------------------------|----|
| Acute | dermal toxicity | : LD50 (Rabbit): > 3,100 mg/kg | |
| Tosyl | chloride: | | |
| - | oral toxicity | : LD50 (Rat): 4,680 mg/kg | |
| Acute | dermal toxicity | : LD50 (Rabbit): > 5,000 mg/kg | |
| Skin | corrosion/irritation | | |
| Cause | es skin irritation. | | |
| <u>Comp</u> | oonents: | | |
| 4,4'-D | piphenylmethane dii | socyanate: | |
| Speci | | : Rabbit | |
| Metho | | : OECD Test Guideline 404 | |
| Resul | | : Skin irritation | |
| Rema | Irks | : Based on data from similar materials | |
| Diphe | enylmethane diisocy | vanate, isomers and homologues: | |
| Speci | es | : Rabbit | |
| Resul | t | : Skin irritation | |
| Talc: | | | |
| Speci | es | : Rabbit | |
| Resul | | : No skin irritation | |
| Diphe | enylmethane 2,4'-Dii | socyanate: | |
| Speci | • | - : Rabbit | |
| Metho | | : OECD Test Guideline 404 | |
| Resul | t | : Skin irritation | |
| Rema | ırks | : Based on data from similar materials | |
| 2,2'-N | lethylenediphenyl d | iisocyanate: | |
| Resul | t | : Skin irritation | |
| Rema | ırks | : Based on national or regional regulation. | |
| Silico | n dioxide: | | |
| Speci | es | : Rabbit | |
| Metho | | : OECD Test Guideline 404 | |
| Resul | t | : No skin irritation | |
| 4-Iso | cyanatosulphonylto | luene: | |
| Resul | t | : Skin irritation | |
| Rema | ırks | : Based on national or regional regulation. | |
| Methy | ylenediphenyl diisoo | cyanate, oligomers, reaction products with 2-ethylhexa | n- |
| - | es | - • • | |

according to the Hazardous Products Regulations



| ersion 0 | Revision Date: 12/18/2023 | SDS Number:Date of last issue: 11/10/20225235444-00007Date of first issue: 10/28/2019 | | | |
|----------------|---------------------------|---------------------------------------------------------------------------------------|--|--|--|
| Metho | od | : OECD Test Guideline 404 | | | |
| Result | | : No skin irritation | | | |
| | | | | | |
| Tribu | tyl phosphate: | | | | |
| Resul | - | : Skin irritation | | | |
| Rema | irks | : Based on national or regional regulation. | | | |
| Tosyl | chloride: | | | | |
| Speci | | : Rabbit | | | |
| Resul | t | : Skin irritation | | | |
| Serio | us eye damage/eye | irritation | | | |
| Cause | es serious eye irritatio | on. | | | |
| Comp | oonents: | | | | |
| 4,4'-D | iphenylmethane dii | socyanate: | | | |
| Resul | | : Irritation to eyes, reversing within 7 days | | | |
| Rema | ırks | : Based on national or regional regulation. | | | |
| Diphe | envlmethane diisocy | vanate, isomers and homologues: | | | |
| Resul | | : Irritation to eyes, reversing within 7 days | | | |
| 110501 | L . | . Initiation to cycs, reversing within 7 days | | | |
| Talc: | | | | | |
| Speci | | : Rabbit | | | |
| Resul | t | : No eye irritation | | | |
| Diphe | enylmethane 2,4'-Di | isocyanate: | | | |
| Resul | - | : Irritation to eyes, reversing within 21 days | | | |
| Rema | ırks | : Based on national or regional regulation. | | | |
| 2 2'-N | lethylenediphenyl d | liisocvanate | | | |
| Resul | | : Irritation to eyes, reversing within 7 days | | | |
| Rema | - | : Based on national or regional regulation. | | | |
| Silico | n dioxide: | | | | |
| Speci | | : Rabbit | | | |
| Resul | | : No eye irritation | | | |
| Metho | od | : OECD Test Guideline 405 | | | |
| 4-1900 | cyanatosulphonylto | luene. | | | |
| Resul | | : Irritation to eyes, reversing within 21 days | | | |
| Rema | | : Based on national or regional regulation. | | | |
| - | | | | | |
| - | • • | cyanate, oligomers, reaction products with 2-ethylhexan-l- | | | |
| Speci Resul | | : Rabbit | | | |
| Resul | τ | : No eye irritation | | | |

according to the Hazardous Products Regulations



| 0 | Revision Date: 12/18/2023 | SDS Number: 5235444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 |
|---------|---------------------------|------------------------------|-------------------------------------------------------------------|
| Method | b | : OECD Test Gui | deline 405 |
| Tributy | yl phosphate: | | |
| Specie | | : Rabbit | |
| Result | • | : No eye irritation | |
| Method | b | : OECD Test Gui | |
| Tosyl | chloride: | | |
| Specie | S | : Rabbit | |
| Result | - | : Irreversible effe | cts on the eye |
| Respir | atory or skin sensi | itization | |
| Skin s | ensitization | | |
| | ause an allergic skin | | |
| - | atory sensitization | na symptoms or breathi | ng difficulties if inhaled. |
| | onents: | | Ŭ |
| 4,4'-Di | phenylmethane dii | socyanate: | |
| Test Ty | | : Buehler Test | |
| | s of exposure | : Skin contact | |
| Specie | S | : Guinea pig | |
| Result | | : positive | |
| Assess | sment | : Probability or ev | vidence of skin sensitization in humans |
| Routes | s of exposure | : Inhalation | |
| Specie | S | : Rat | |
| Result | | : positive | |
| Remar | ks | : Based on data f | rom similar materials |
| Assess | sment | : Probability of rea | spiratory sensitization in humans based |
| Dipher | nylmethane diisocy | anate, isomers and ho | omologues: |
| Test Ty | | : Buehler Test | |
| | of exposure | : Skin contact | |
| Specie | S | : Guinea pig | |
| Result | | : positive | |
| Remar | ks | : Based on data f | rom similar materials |
| Assess | sment | : Probability or ev | vidence of skin sensitization in humans |
| | s of exposure | : inhalation (dust/ | /mist/fume) |
| Specie | S | : Rat | |
| Result | | : positive | |
| Result | | | |
| Assess | sment | : Probability of rea | spiratory sensitization in humans based |

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| ersion) | Revision Date: 12/18/2023 | SDS Number: 5235444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 | | | |
|-------------------|------------------------------|--------------------------------------|-------------------------------------------------------------------|--|--|--|
| | | | | | | |
| Talc: | | | | | | |
| | es of exposure | : Skin contact | | | | |
| Speci | | : Humans | | | | |
| Resu | lt | : negative | | | | |
| Diphe | enylmethane 2,4'-Dii | socyanate: | | | | |
| Route | es of exposure | : Inhalation | | | | |
| Speci | | : Rat | | | | |
| Resu | | : positive | | | | |
| Rema | arks | : Based on data | from similar materials | | | |
| Asses | ssment | : Probability or e | evidence of skin sensitization in humans | | | |
| Asses | ssment | : Probability of r animal testing | espiratory sensitization in humans based | | | |
| 2,2'-N | /lethylenediphenyl d | iisocyanate: | | | | |
| Test ⁻ | Tvpe | : Local lymph no | ode assay (LLNA) | | | |
| | es of exposure | : Skin contact | ······································ | | | |
| Speci | | : Mouse | | | | |
| Resu | | : positive | | | | |
| Rema | arks | : Based on data | from similar materials | | | |
| Asses | ssment | : Probability or e | evidence of skin sensitization in humans | | | |
| Route | es of exposure | : inhalation (dus | st/mist/fume) | | | |
| Speci | | : Guinea pig | , | | | |
| Resu | lt | : positive | | | | |
| Rema | arks | : Based on data | from similar materials | | | |
| Asses | ssment | : Probability of r animal testing | espiratory sensitization in humans based | | | |
| 4-lso | cyanatosulphonylto | luene: | | | | |
| Test ⁻ | | | ode assay (LLNA) | | | |
| | es of exposure | : Skin contact | | | | |
| Speci | | : Mouse | | | | |
| Metho | | : OECD Test Gu | uideline 429 | | | |
| Resu | lt | : negative | | | | |
| Rema | arks | : Based on data | from similar materials | | | |
| | es of exposure | : Inhalation | | | | |
| Resu | It | : positive | | | | |
| | ssment | | nsitization by inhalation. | | | |
| Rema | arks | : Based on nation | onal or regional regulation. | | | |
| Meth | ylenediphenyl diiso | cyanate, oligomers, r | eaction products with 2-ethylhexan-l-ol | | | |
| Test | Туре | : Local lymph no | ode assay (LLNA) | | | |
| | | 17/3 | 6 | | | |
| | | 17 / 30 | 6 | | | |

according to the Hazardous Products Regulations



REPLAST EASY 10 MIN, Component B

| ersion) | Revision Date: 12/18/2023 | SDS Number:Date of last issue: 11/10/20225235444-00007Date of first issue: 10/28/2019 | | |
|---------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Route Spec Meth Resu | od | Skin contact Mouse OECD Test Guideline 429 positive | | |
| Asse | ssment | : Probability or evidence of skin sensitization in humans | | |
| Route Spec Rema | | : inhalation (dust/mist/fume) : Guinea pig : Based on data from similar materials | | |
| Assessment | | Probability of respiratory sensitization in humans based on animal testing | | |
| Tribu | ityl phosphate: | | | |
| Route Spec Resu | | Skin contact Guinea pig negative | | |
| Tosy | l chloride: | | | |
| Test Route Spec Meth Resu | es of exposure ies od | Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429 positive | | |
| Asse | ssment | : Probability or evidence of high skin sensitization rate in hu- mans | | |

Not classified based on available information.

Components:

4,4'-Diphenylmethane diisocyanate:

| Genotoxicity in vitro : | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vivo : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhalation (dust/mist/fume) Method: OECD Test Guideline 474 Result: negative |
| Diphenylmethane diisocyanat | e, isomers and homologues: |
| Genotoxicity in vitro : | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
| Genotoxicity in vivo : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) |

according to the Hazardous Products Regulations



| rsion) | Revision Date: 12/18/2023 | SDS Number 5235444-000 | |
|----------------------|---------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| | | | n Route: inhalation (dust/mist/fume) DECD Test Guideline 474 |
| Talc: | | | |
| Geno | toxicity in vitro | | : DNA damage and repair, unscheduled DNA syn- nammalian cells (in vitro) gative |
| Genotoxicity in vivo | | Species: I | n Route: Ingestion |
| Diphe | enylmethane 2,4'-Di | socyanate: | |
| Geno | toxicity in vitro | : Test Type Result: ne | : Bacterial reverse mutation assay (AMES) gative |
| Geno | toxicity in vivo | cytogenet Species: I Applicatio Method: C Result: ne | Rat n Route: inhalation (dust/mist/fume) DECD Test Guideline 474 |
| 2,2'-N | /lethylenediphenyl c | iisocyanate: | |
| Geno | toxicity in vitro | | : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative |
| Geno | toxicity in vivo | cytogenet Species: I Applicatio Method: C Result: ne | Rat n Route: inhalation (dust/mist/fume) DECD Test Guideline 474 |
| Silico | on dioxide: | | |
| Geno | toxicity in vitro | | : Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 gative |
| Geno | toxicity in vivo | cytogenet Species: I | n Route: Ingestion |

according to the Hazardous Products Regulations



| rsion | Revision Date: 12/18/2023 | SDS Number: 5235444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 |
|-------|---------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 4-Iso | cyanatosulphonylto | luene: | |
| Genot | toxicity in vitro | Method: OE(Result: nega | acterial reverse mutation assay (AMES) CD Test Guideline 471 tive ased on data from similar materials |
| Genot | toxicity in vivo | cytogenetic a Species: Mo Application F Method: OE0 Result: nega | use Route: Ingestion CD Test Guideline 474 |
| Methy | ylenediphenyl diiso | cyanate, oligomers, | , reaction products with 2-ethylhexan-I-ol: |
| Geno | toxicity in vitro | | acterial reverse mutation assay (AMES) CD Test Guideline 471 tive |
| Geno | toxicity in vivo | cytogenetic a Species: Rat Application F Method: OE0 Result: nega | Route: inhalation (dust/mist/fume) CD Test Guideline 474 |
| Tribu | tyl phosphate: | | |
| Geno | toxicity in vitro | : Test Type: C Result: nega | chromosome aberration test in vitro tive |
| | | Test Type: Ir Result: nega | n vitro mammalian cell gene mutation test tive |
| | | Test Type: B Result: nega | acterial reverse mutation assay (AMES) tive |
| Genot | toxicity in vivo | cytogenetic t Species: Rat | Route: Ingestion |
| Tosyl | chloride: | | |
| - | toxicity in vitro | : Test Type: Ir Result: posit | n vitro mammalian cell gene mutation test ive |
| Geno | toxicity in vivo | cytogenetic a Species: Mo | |

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| ersion .0 | Revision Date: 12/18/2023 | | DS Number: 35444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 |
|----------------|------------------------------|-------|----------------------------------|-------------------------------------------------------------------|
| | | | Method: OECD Result: negative | Test Guideline 474 e |
| Carci | nogenicity | | | |
| Suspe | ected of causing cance | er. | | |
| <u>Comp</u> | oonents: | | | |
| 4,4'-D | Diphenylmethane diis | осуа | nate: | |
| Speci | | : | Rat | |
| | cation Route | : | inhalation (dust | /mist/fume) |
| | sure time | : | 2 Years | |
| Resul | | : | positive | |
| Rema | arks | : | Based on data i | from similar materials |
| Carcir ment | nogenicity - Assess- | : | Limited evidenc | e of carcinogenicity in animal studies |
| Diphe | enylmethane diisocya | anate | , isomers and h | omologues: |
| Speci | es | : | Rat | - |
| | cation Route | : | inhalation (dust | /mist/fume) |
| Expos | sure time | : | 2 Years | |
| Resul | t | : | positive | |
| Carcir ment | nogenicity - Assess- | : | Limited evidenc | e of carcinogenicity in animal studies |
| Talc: | | | | |
| Speci | es | : | Mouse | |
| | cation Route | : | inhalation (dust | /mist/fume) |
| • | sure time | : | 2 Years | |
| Resul | lt | : | negative | |
| Diphe | enylmethane 2,4'-Diis | осуа | nate: | |
| Speci | | : | Rat | |
| | cation Route | : | inhalation (dust | /mist/fume) |
| | sure time | : | 2 Years | |
| Resul | | : | positive | |
| Rema | arks | : | Based on data f | from similar materials |
| Carcir ment | nogenicity - Assess- | : | Limited evidenc | e of carcinogenicity in animal studies |
| 2,2'-N | lethylenediphenyl dii | socy | anate: | |
| Speci | es | : | Rat | |
| Applic | cation Route | : | inhalation (dust | /mist/fume) |
| | sure time | : | 2 Years | |
| Resul | | : | positive | |
| Rema | arks | : | Based on data f | from similar materials |
| Carcir | nogenicity - Assess- | : | Limited evidence | e of carcinogenicity in animal studies |

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| Versior 4.0 | n Revision Date: 12/18/2023 | - | S Number: 35444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| me | ent | | Remarks: Based | on national or regional regulation. |
| Sp Ap Ex | licon dioxide: pecies oplication Route cposure time esult | : : : : | Rat Ingestion 103 weeks negative | |
| Sp Ap Ex Re Ca | ethylenediphenyl diisocy becies oplication Route cposure time esult emarks arcinogenicity - Assess- ent | : : : : : : : : : : : : : : : : : : : : | Rat inhalation (dust/ 2 Years positive Based on data f | action products with 2-ethylhexan-l-ol: mist/fume) rom similar materials e of carcinogenicity in animal studies |
| Sp Ap Ex Re | ibutyl phosphate: pecies oplication Route sposure time esult arcinogenicity - Assess- ent | : | Rat Ingestion 24 month(s) positive Limited evidence | e of carcinogenicity in animal studies |
| No | eproductive toxicity ot classified based on avail omponents: | able | information. | |
| 4 4 | 4'-Diphenylmethane diiso | cvar | nate: | |
| | fects on fetal development | - | Test Type: Emb Species: Rat Application Rou Result: negative | ryo-fetal development e: inhalation (dust/mist/fume) d on data from similar materials |
| | phenylmethane diisocya fects on fetal development | | Test Type: Emb Species: Rat | ryo-fetal development e: inhalation (dust/mist/fume) |
| | IIC: fects on fetal development | : | Test Type: Emb Species: Rat Application Rou Result: negative | |
| | | | | |

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|----------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| Diph | enylmethane 2,4'-Diiso | cyanate: | | |
| Effec | ts on fetal development | Test Type: Embryo-fetal development Species: Rat Application Route: inhalation (dust/mist/fume) Result: negative Remarks: Based on data from similar materials | | |
| 2,2'-I | Methylenediphenyl diis | ocyanate: | | |
| Effec | ts on fetal development | Species: Rat Application Ro Result: negativ | bryo-fetal development ute: inhalation (dust/mist/fume) /e ed on data from similar materials | |
| Silic | on dioxide: | | | |
| Effec | ts on fetal development | : Test Type: Em Species: Rat Application Ro Result: negativ | | |
| 4-lso | cyanatosulphonyltolue | ene: | | |
| Effec | ts on fertility | Species: Rat Application Ro Method: OECI Result: negativ | D Test Guideline 416 | |
| Effec | ts on fetal development | Species: Rabb Application Ro Result: negativ | ute: Ingestion | |
| Meth | ylenediphenyl diisocya | anate, oligomers, r | eaction products with 2-ethylhexan-I-ol: | |
| | ts on fetal development | : Test Type: Em Species: Rat Application Ro Method: OECI Result: negativ | bryo-fetal development ute: inhalation (dust/mist/fume) D Test Guideline 414 | |
| Tribu | ityl phosphate: | | | |
| Effec | ts on fertility | : Test Type: Tw Species: Rat Application Ro Result: negativ | | |

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REPLAST EASY 10 MIN, Component B

| sion | Revision Date: 12/18/2023 | | OS Number: 35444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 | |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--|
| Effect | s on fetal development | : | Test Type: Embr Species: Rat Application Rout Result: negative | yo-fetal development e: Ingestion | |
| Tosyl | chloride: | | | | |
| Effects on fertility | | : | Test Type: Combined repeated dose toxicity study with th reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative | | |
| Effect | s on fetal development | : | reproduction/dev Species: Rat Application Rout Method: OECD | bined repeated dose toxicity study with the relopmental toxicity screening test e: Ingestion Fest Guideline 422 | |
| | | | Result: negative | | |
| stot | -single exposure | | Result: negative | | |
| | -single exposure cause respiratory irritatio | n. | Result: negative | | |
| May c | • • | n. | Result: negative | | |
| May c <u>Comp</u> | cause respiratory irritatio | | - | | |
| May c <u>Comp</u> 4,4'-D | cause respiratory irritatio | | - | ratory irritation. | |
| May c <u>Comr</u> 4,4'-D Asses | cause respiratory irritatio ponents: Diphenylmethane diisoo | cyai : | nate: May cause respi | - | |
| May o <u>Comp</u> 4,4'-D Asses Diphe | cause respiratory irritatio ponents: Diphenylmethane diisoo ssment | cyai : | nate: May cause respi | mologues: | |
| May o Comp 4,4'-D Asses Diphe Asses | cause respiratory irritatio <u>conents:</u> Diphenylmethane diisoo ssment enylmethane diisocyan ssment | cyai : iate : | nate: May cause respi , isomers and ho May cause respi | mologues: | |
| May of Comp 4,4'-D Asses Diphe Asses | cause respiratory irritatio <u>conents:</u> Diphenylmethane diisoo ssment enylmethane diisocyan | cyai : iate : | nate: May cause respi , isomers and ho May cause respi | mologues: ratory irritation. | |
| May of Comp 4,4'-D Asses Diphe Asses | cause respiratory irritatio <u>conents:</u> Diphenylmethane diisoo ssment enylmethane diisocyan ssment enylmethane 2,4'-Diisoo ssment | cyai nate cya | nate: May cause respi , isomers and ho May cause respi nate: May cause respi | mologues: ratory irritation. | |
| May c <u>Comp</u> 4,4'-D Asses Diphe Asses 2,2'-N | cause respiratory irritatio ponents: Diphenylmethane diisoo ssment enylmethane diisocyan ssment enylmethane 2,4'-Diiso | cyai nate cya | nate: May cause respi , isomers and ho May cause respi nate: May cause respi | mologues: ratory irritation. ratory irritation. | |
| May of Comp 4,4'-D Asses Diphe Asses 2,2'-N Asses | cause respiratory irritatio <u>conents:</u> Diphenylmethane diisoo ssment enylmethane diisocyan ssment enylmethane 2,4'-Diiso ssment Methylenediphenyl diiso ssment | cyai iate cya i ocy | nate: May cause respi , isomers and ho May cause respi nate: May cause respi anate: May cause respi | mologues: ratory irritation. ratory irritation. | |
| May of Comp 4,4'-D Asses Diphe Asses 2,2'-N Asses 4-Isoo | cause respiratory irritatio <u>conents:</u> Diphenylmethane diisoo ssment enylmethane diisocyan ssment enylmethane 2,4'-Diiso ssment | cyai iate cya i ocy | nate: May cause respi , isomers and ho May cause respi nate: May cause respi anate: May cause respi | mologues: ratory irritation. ratory irritation. | |
| May of Comp 4,4'-D Asses Diphe Asses 2,2'-N Asses 4-Isod Asses | cause respiratory irritatio <u>conents:</u> Diphenylmethane diisoo assment enylmethane diisocyan assment enylmethane 2,4'-Diisoo assment Methylenediphenyl diiso assment cyanatosulphonyltolue assment | cyan nate cya ocy | nate: May cause respi , isomers and ho May cause respi nate: May cause respi anate: May cause respi May cause respi | mologues: ratory irritation. ratory irritation. | |

May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

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|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Comp | onents: | | | | |
| 4.4'-D | iphenylmethane dii | socvanate: | | | |
| | s of exposure | : inhalation (dust | /mist/fume) | | |
| Target | t Organs | : Respiratory Tra | ct | | |
| Asses | sment | | uce significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. | | |
| Diphe | nylmethane diisocy | yanate, isomers and h | omologues: | | |
| Routes of exposure : inhalation (dust/mist/fume) | | | | | |
| | t Organs | : Respiratory Tra | | | |
| Asses | sment | | uce significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. | | |
| Diphe | nylmethane 2,4'-Di | isocyanate: | | | |
| | s of exposure | : inhalation (dust | | | |
| | t Organs | : Respiratory Tra | | | |
| Asses | sment | | uce significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. | | |
| 2,2'-M | ethylenediphenyl d | liisocyanate: | | | |
| | s of exposure | : inhalation (dust | | | |
| | t Organs | : Respiratory Tra | | | |
| Asses | sment | | Shown to produce significant health effects in animals at c centrations of >0.02 to 0.2 mg/l/6h/d. | | |
| | | centrations of > | 0.02 to 0.2 mg///on//u. | | |
| Methy | vlenediphenyl diiso | | eaction products with 2-ethylhexan-l-ol: | | |
| Route | s of exposure | cyanate, oligomers, re : inhalation (dust | eaction products with 2-ethylhexan-l-ol: /mist/fume) | | |
| Route: Target | s of exposure t Organs | cyanate, oligomers, re : inhalation (dust : Respiratory Tra | eaction products with 2-ethylhexan-I-ol: /mist/fume) .ct | | |
| Route | s of exposure t Organs | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to produ | eaction products with 2-ethylhexan-I-ol: /mist/fume) .ct | | |
| Routes Target Asses | s of exposure t Organs | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to produ | eaction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor | | |
| Routes Target Asses Repea | s of exposure t Organs sment | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to produ | eaction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor | | |
| Routes Target Asses Repea | s of exposure t Organs sment ated dose toxicity | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to produ centrations of > | eaction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor | | |
| Routes Target Asses Repea <u>Comp</u> 4,4'-Di Specie | s of exposure t Organs sment ated dose toxicity <u>conents:</u> iphenylmethane dii | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to produce centrations of > socyanate: : Rat | eaction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor | | |
| Routes Target Asses Repea <u>Comp</u> 4,4'-Di Specie NOAE | s of exposure t Organs sment ated dose toxicity <u>onents:</u> iphenylmethane dii es | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to produce centrations of > socyanate: : Rat : 0,2 mg/m3 | eaction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor | | |
| Routes Target Asses Repea <u>Comp</u> 4,4'-Di Specie NOAE LOAE | s of exposure t Organs sment ated dose toxicity onents: iphenylmethane dii es L | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to produ centrations of > socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3 | eaction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. | | |
| Routes Target Asses Repea 4,4'-Di Specie NOAE LOAE | s of exposure t Organs sment ated dose toxicity onents: iphenylmethane dii es L L ation Route | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to produ centrations of > socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3 : inhalation (dust | eaction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. | | |
| Routes Target Asses Repea 4,4'-Di Specie NOAE LOAE | s of exposure t Organs sment ated dose toxicity onents: iphenylmethane dii es L L ation Route ure time | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to producent centrations of > socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3 : inhalation (dust : 2 y | eaction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. | | |
| Routes Target Asses Repea 4,4'-Di Specie NOAE LOAE Applic Expos Remai | s of exposure t Organs sment ated dose toxicity oonents: iphenylmethane dii es L ation Route ure time rks | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to producent centrations of > socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3 : inhalation (dust : 2 y | Paction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. /mist/fume) from similar materials | | |
| Routes Target Asses Repea <u>Comp</u> 4,4'-Di Specie NOAE LOAE LOAE Applic Expos Remai | s of exposure t Organs sment ated dose toxicity <u>oonents:</u> iphenylmethane dii es L ation Route ure time rks nylmethane diisocy | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to producent centrations of > socyanate: : Rat : 0,2 mg/m3 : inhalation (dust : 2 y : Based on data for the second secon | Paction products with 2-ethylhexan-I-ol: /mist/fume) act ace significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. /mist/fume) from similar materials | | |
| Routes Target Asses Repea <u>Comp</u> 4,4'-Di Specie NOAE LOAE Applic Expos Remai Diphe Specie NOAE | s of exposure t Organs sment ated dose toxicity <u>oonents:</u> iphenylmethane dii es L ation Route ure time rks nylmethane diisocy | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to producent centrations of > socyanate: : Rat : 0,2 mg/m3 : 1 mg/m3 : inhalation (dust : 2 y : Based on data for the second test yanate, isomers and h : Rat : 1.4 mg/m3 | Paction products with 2-ethylhexan-l-ol: /mist/fume) ict ice significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. /mist/fume) from similar materials | | |
| Routes Target Asses Repea <u>Comp</u> 4,4'-Di Specie NOAE LOAE Applic Expos Remai Diphe Specie NOAE | s of exposure t Organs sment ated dose toxicity <u>oonents:</u> iphenylmethane dii es L ation Route ure time rks nylmethane diisocy | cyanate, oligomers, re : inhalation (dust : Respiratory Tra : Shown to producent centrations of > socyanate: : Rat : 0,2 mg/m3 : inhalation (dust : 2 y : Based on data for the second secon | Araction products with 2-ethylhexan-l-ol: /mist/fume) loct loce significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d. /mist/fume) from similar materials omologues: | | |

according to the Hazardous Products Regulations



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Diphenylmethane 2,4'-Diisocyanate:

| Species : | Rat |
|---------------------|--------------------------------------|
| NOAEL : | 0,2 mg/m3 |
| LOAEL : | 1 mg/m3 |
| Application Route : | inhalation (dust/mist/fume) |
| Exposure time : | 2 y |
| Remarks : | Based on data from similar materials |

2,2'-Methylenediphenyl diisocyanate:

| Species : | Rat |
|---------------------|--------------------------------------|
| NOAEL : | 0.0002 mg/l |
| LOAEL : | 0.001 mg/l |
| Application Route : | inhalation (dust/mist/fume) |
| Exposure time : | 2 у |
| Remarks : | Based on data from similar materials |

Silicon dioxide:

| Species NOAEL | : | Rat |
|-------------------|---|-----------------------------|
| NOAEL | : | 1.3 mg/m³ |
| Application Route | : | inhalation (dust/mist/fume) |
| Exposure time | : | 13 Weeks |

4-Isocyanatosulphonyltoluene:

| Species : | Rat |
|---------------------|--------------------------------------|
| NOAEL : | 214 mg/kg |
| LOAEL : | 738 mg/kg |
| Application Route : | Ingestion |
| Exposure time : | 90 Days |
| Method : | OECD Test Guideline 408 |
| Remarks : | Based on data from similar materials |

Methylenediphenyl diisocyanate, oligomers, reaction products with 2-ethylhexan-l-ol:

| Species : | Rat |
|---------------------|--------------------------------------|
| LOAEL : | 0.05 mg/kg |
| Application Route : | inhalation (dust/mist/fume) |
| Exposure time : | 90 Days |
| Remarks : | Based on data from similar materials |
| | |

Tributyl phosphate:

| Species | : | Mouse |
|-------------------|---|-------------|
| LÕAEL | : | > 300 mg/kg |
| Application Route | : | Ingestion |
| Exposure time | : | 90 Days |
| | | · |
| | | |

Tosyl chloride:

| Species | : | Rat |
|-------------------|---|-----------|
| LÕAEL | : | 150 mg/kg |
| Application Route | : | Ingestion |

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|----------------|--------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Expo Meth | osure time nod | : | 34 Days OECD Test Gu | ideline 422 |
| Not | iration toxicity classified based on availa | | | |
| SECTION | N 12. ECOLOGICAL INFO | ORN | IATION | |
| | toxicity | | | |
| <u>Con</u> | <u>iponents:</u> | | | |
| | Diphenylmethane diisoo | cya | | |
| Toxi | city to fish | : | Exposure time: | latipes (Orange-red killifish)): > 3,000 mg/l 96 h d on data from similar materials |
| | city to daphnia and other atic invertebrates | : | Exposure time: | magna (Water flea)): 129.7 mg/l 24 h Test Guideline 202 |
| Toxi plan | city to algae/aquatic ts | : | mg/l Exposure time: Method: OECD | lesmus subspicatus (green algae)): > 1,640 72 h Test Guideline 201 d on data from similar materials |
| | | | Exposure time: Method: OECD | desmus subspicatus (green algae)): 1,640 mg/l 72 h Test Guideline 201 d on data from similar materials |
| aqua | city to daphnia and other atic invertebrates (Chron- xicity) | : | Exposure time: Method: OECD | a magna (Water flea)): 10 mg/l 21 d Test Guideline 211 d on data from similar materials |
| Тохі | city to microorganisms | : | EC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials | |
| Dipł | nenylmethane diisocyan | ate | , isomers and h | omologues: |
| | city to fish | : | | rio (zebra fish)): > 1,000 mg/l |
| Toxi plan | city to algae/aquatic ts | : | ErC50 (Desmodesmus subspicatus (green algae)): > 1,640 mg/l Exposure time: 72 h | |
| | city to daphnia and other atic invertebrates (Chron- | : | NOEC (Daphnia magna (Water flea)): > 10 mg/l Exposure time: 21 d | |

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|------------------|-------------------------------------------------------------|-----|---------------------------------------------|-------------------------------------------------------------------------------------------------|
| ic toxi | city) | | | |
| Talc: | | | | |
| Toxici | ty to fish | : | LC50 (Brachydan Exposure time: 24 | io rerio (zebrafish)): > 100,000 mg/l 4 h |
| Diphe | nylmethane 2,4'-Diiso | суа | nate: | |
| Toxici | ty to fish | : | Exposure time: 90 Method: OECD T | o (zebra fish)): > 1,000 mg/l 5 h est Guideline 203 on data from similar materials |
| | ty to daphnia and other c invertebrates | : | Exposure time: 24 Method: OECD T | nagna (Water flea)): > 1,000 mg/l 4 h est Guideline 202 on data from similar materials |
| Toxici plants | ty to algae/aquatic | : | mg/l Exposure time: 72 Method: OECD T | |
| | | | Exposure time: 72 Method: OECD T | |
| | ty to daphnia and other c invertebrates (Chron- city) | : | Exposure time: 2 Method: OECD T | |
| Toxici | ty to microorganisms | : | | |
| 2,2'-M | ethylenediphenyl diiso | осу | anate: | |
| Toxici | ty to fish | : | Exposure time: 90 | bes (Japanese medaka)): > 3,000 mg/l 5 h on data from similar materials |
| | ty to daphnia and other c invertebrates | : | Exposure time: 24 | nagna (Water flea)): 129.7 mg/l 4 h on data from similar materials |
| Toxici plants | ty to algae/aquatic | : | mg/l Exposure time: 72 Method: OECD T | |
| | | | 28 / 36 | |

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| /ersion I.0 | Revision Date: 12/18/2023 | - | 0S Number: 35444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 |
|-----------------|-----------------------------------------------------------------|-----|--------------------------------------------------------------------------|-------------------------------------------------------------------|
| | | | mg/l Exposure time: 72 Method: OECD T | |
| | ity to daphnia and other tic invertebrates (Chron- icity) | : | Exposure time: 2 Method: OECD T | |
| Toxic | ity to microorganisms | : | EC50: > 100 mg/l Exposure time: 3 Method: OECD T Remarks: Based | h |
| Silico | on dioxide: | | | |
| | ity to fish | : | Exposure time: 96 | o (zebra fish)): > 10,000 mg/l 6 h est Guideline 203 |
| | ity to daphnia and other tic invertebrates | : | EC50 (Daphnia m Exposure time: 24 Method: OECD T | |
| Toxic plants | ity to algae/aquatic s | : | mg/l Exposure time: 72 Method: OECD T | |
| | | | mg/l Exposure time: 72 Method: OECD T | |
| | oxyalkanoic acid, com triamine, lactone and la | | | ocycle polymer with hydroxyalkanoic acid, |
| - | ity to fish | : | | io rerio (zebrafish)): > 1 - 10 mg/l 6 h |
| | ity to daphnia and other tic invertebrates | : | EC50 (Daphnia m Exposure time: 48 | nagna (Water flea)): > 10 - 100 mg/l 3 h |
| 1-lea | cyanatosulphonyltolue | ne. | | |
| | ity to fish | | LC50 (Oncorhynd Exposure time: 96 Method: OECD T | |



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|-------------|--------------------|---------------------------------------|-----|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| | | to daphnia and other invertebrates | : | Exposure time: 48 Method: OECD Te | |
| | Toxicity plants | to algae/aquatic | : | Exposure time: 72 Method: OECD Te | |
| | | | | Exposure time: 72 Method: OECD Te | |
| | Methyle | enediphenvl diisocva | nat | e. oligomers. read | tion products with 2-ethylhexan-l-ol: |
| | Toxicity | | : | LL50 (Danio rerio Exposure time: 96 Test substance: W | (zebra fish)): > 100 mg/l |
| | | to daphnia and other invertebrates | : | Exposure time: 48 Test substance: W | agna (Water flea)): 2 mg/l 5 h /ater Accommodated Fraction 67/548/EEC, Annex V, C.2. |
| | Toxicity plants | to algae/aquatic | : | Exposure time: 72 Test substance: W | mus subspicatus (green algae)): > 100 mg/l ? h /ater Accommodated Fraction 67/548/EEC, Annex V, C.3. |
| | Toxicity | to microorganisms | : | EC50: > 10,000 m Exposure time: 3 Method: 88/302/E | ĥ |
| | Tributy | I phosphate: | | | |
| | Toxicity | | : | LC50 (Oncorhync Exposure time: 96 | hus mykiss (rainbow trout)): 4.2 mg/l 5 h |
| | | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 2.6 mg/l s h |
| | Toxicity plants | to algae/aquatic | : | ErC50 (Desmodes Exposure time: 72 | smus subspicatus (green algae)): 2.8 mg/l ! h |
| | | | | EC10 (Desmodes Exposure time: 72 | mus subspicatus (green algae)): 0.92 mg/l ? h |
| | Toxicity icity) | to fish (Chronic tox- | : | NOEC (Oncorhyn Exposure time: 95 | chus mykiss (rainbow trout)): 0.82 mg/l i d |
| | Toxicity | to daphnia and other | : | NOEC (Daphnia n | nagna (Water flea)): 0.87 mg/l |

according to the Hazardous Products Regulations



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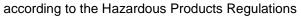
| rsion) | Revision Date: 12/18/2023 | | 9S Number: 35444-00007 | Date of last issue: 11/10/2022 Date of first issue: 10/28/2019 |
|-----------------------------------------------|-------------------------------------------|-----|--------------------------------------------------------------------------------|-------------------------------------------------------------------|
| aquatic invertebrates (Chron- ic toxicity) | | | Exposure time: 2 | 1 d |
| Toxicity to microorganisms | | : | EC50: 100 mg/l Exposure time: 3 Method: OECD T | h est Guideline 209 |
| Tosyl | chloride: | | | |
| - | y to fish | : | LC50 (Oryzias lat Exposure time: 96 Method: OECD T | |
| | y to daphnia and other c invertebrates | : | Exposure time: 48 | nagna (Water flea)): > 334 mg/l 3 h est Guideline 202 |
| Toxicit plants | y to algae/aquatic | : | ErC50 (Pseudokin mg/l Exposure time: 72 | rchneriella subcapitata (green algae)): > 10 2 h |
| | | | NOEC (Pseudoki mg/l Exposure time: 72 | rchneriella subcapitata (green algae)): 2.6 2 h |
| Toxicit | y to microorganisms | : | Exposure time: 3 | h on data from similar materials |
| Persis | tence and degradabili | ty | | |
| Comp | onents: | - | | |
| | phenylmethane diisoo | vai | nate: | |
| | radability | - | Result: Not readil Biodegradation: (Exposure time: 28 Method: OECD T | 0 % |
| Diphe | nylmethane diisocyan | ate | , isomers and hor | nologues: |
| Biodeg | radability | : | Result: Not readil Biodegradation: Exposure time: 28 | 0 % |
| Diphe | nylmethane 2,4'-Diisoo | cya | nate: | |
| - | radability | : | Result: Not readil Biodegradation: (Exposure time: 28 | 0 % |

2,2'-Methylenediphenyl diisocyanate:

according to the Hazardous Products Regulations



| ersion D | Revision Date: 12/18/2023 | SDS Number:Date of last issue: 11/10/20225235444-00007Date of first issue: 10/28/2019 |
|-------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biode | egradability | Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Remarks: Based on data from similar materials |
| 4-Iso | cyanatosulphonylto | luene: |
| Biode | gradability | Result: Readily biodegradable. Biodegradation: 86 % Exposure time: 28 d Method: OECD Test Guideline 301D Remarks: Based on data from similar materials |
| Methy | ylenediphenyl diiso | cyanate, oligomers, reaction products with 2-ethylhexan-I-ol |
| Biode | gradability | Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301F |
| Tribu | tyl phosphate: | |
| | gradability | Result: Readily biodegradable. Biodegradation: 92 % Exposure time: 28 d Method: OECD Test Guideline 301D |
| Tosyl | l chloride: | |
| Biode | gradability | Result: Readily biodegradable. Biodegradation: 60 % Exposure time: 28 d Method: OECD Test Guideline 301D |
| Bioad | cumulative potentia | al |
| <u>Com</u> | oonents: | |
| 4,4'-D |) iphenylmethane dii | socyanate: |
| Bioac | cumulation | : Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 200 |
| | ion coefficient: n- ol/water | : log Pow: 4.51 |
| Diphe | enylmethane 2,4'-Dii | socyanate: |
| Partiti | • | : log Pow: 4.51 |
| 2,2'-N | lethylenediphenyl d | iisocyanate: |
| | cumulation | Species: Cyprinus carpio (Carp) Concentration: 92 - 200 mg/l Remarks: Based on data from similar materials |
| | | |





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| | | | |
| 4-lso | cyanatosulphonylto | luene: | |
| | ion coefficient: n- ol/water | : log Pow: 0.6 | |
| Meth | ylenediphenyl diiso | cyanate, oligomers, | , reaction products with 2-ethylhexan-l-ol: |
| | ion coefficient: n- ol/water | : log Pow: 4.5 | 1 |
| Tribu | ityl phosphate: | | |
| Bioac | cumulation | | orinus carpio (Carp) ation factor (BCF): 6.9 - 20 |
| | ion coefficient: n- ol/water | : log Pow: 4 | |
| Mobi | lity in soil | | |
| No da | ata available | | |
| Othe | r adverse effects | | |
| No da | ata available | | |

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods Waste from residues | : | Do not dispose of waste into sewer. |
|-----------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Dispose of in accordance with local regulations. |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. |

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

| IATA-DGR UN/ID No. | : | UN 3334 |
|-----------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------|
| Proper shipping name | : | Aviation regulated liquid, n.o.s. (4,4'-Diphenylmethane diisocyanate, Diphenylmethane diiso- cyanate, isomers and homologues) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | Miscellaneous |
| Packing instruction (cargo aircraft) | : | 964 |

according to the Hazardous Products Regulations



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|--|--|------------------------------|------------------------------|-------------------------------------------------------------------|

Packing instruction (passen- : 964 ger aircraft)

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

TDG

Not regulated as a dangerous good

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

| Volatile organic compounds | CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999 - |
|----------------------------|-----------------------------------------------|
| (VOC) content | Guidelines for VOC in Consumer Products |
| | VOC content: 0 % |

| The ingredients of this product are reported in the following inventories: | | |
|----------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DSL | : | All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL). |

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

| ACGIH ACGIH BEI CA AB OEL | : | USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
|---------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CA BC OEL | : | Canada. British Columbia OEL |
| CA ON OEL | : | Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act. |
| CA QC OEL | : | Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants |
| NIOSH REL | : | USA. NIOSH Recommended Exposure Limits |
| OSHA Z-1 | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| CA AB OEL / TWA | : | 8-hour Occupational exposure limit |
| CA BC OEL / TWA | : | 8-hour time weighted average |
| CA BC OEL / C | : | ceiling limit |
| CA ON OEL / C | : | Ceiling Limit (C) |



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| CA QC NIOSH | I OEL / TWA OEL / TWAEV I REL / TWA I REL / C Z-1 / C | : Time-weighted a : Time-weighted a workday during a | Average Limit (TWA) average exposure value average concentration for up to a 10-hour a 40-hour workweek t be exceeded at any time. |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

| Sources of key data used to compile the Material Safety Data Sheet | : | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ |
|--------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Revision Date Date format | : | 12/18/2023 mm/dd/yyyy |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only according to the Hazardous Products Regulations



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to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

CA / Z8