

Safety Data Sheet

1. Identification of Product & Company

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|------------------------|---|
| Product name | X HYDROMELT INX X100 |
| Product number | DEP-301 |
| CAS number | N/A |
| Manufacturer | Ghent University Department of Organic and Macromolecular Chemistry Krijgslaan 281, S4 9000 Ghent Belgium |
| General use: | Not for human use, for research only. |
| Emergency phone number | +32 (0) 499 16 98 94 |

2. Hazards identification

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| Hazard statement(s) | Acute toxicity, Oral (Category 4), H302 Serious eye damage/Eye irritation (Category 2), H318/H319 Skin sensitization (Sub-category 1B), H317 Acute aquatic toxicity (Category 1) H400 Chronic aquatic toxicity (Category 1) H410 |
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Label Elements



Signal Word: Warning

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| Precautionary statement(s) | Avoid release to the environment. Wear protective gloves. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Get medical advice/ attention if you feel unwell. |
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3. Chemical composition

| Chemical name | CAS# | EC No. | EC Class |
|---|------------|-----------|----------|
| Polyurethane Acrylate | N/A | N/A | N/A |
| Ethyl (2,4,6-trimethylbenzoyl) phenyl phosphinate | 84434-11-7 | 282-810-6 | N/A |

The specific chemical identity and/or exact percentage of composition for the ingredients has been withheld as a trade secret.

4. First aid measures

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| General advice | Move out of dangerous area. Consult a physician. Show this data sheet to the doctor in attendance |
| Inhalation | Move person to fresh air as quickly as possible. In case of respiratory problems, move person to first aid station for medical treatment. Consult a physician |
| Skin contact | Wash off with soap and plenty of water for 15 min. Consult a physician |
| Eye contact | Flush with plenty of water to remove particles, remove contact lenses if present. Consult a physician |
| Ingestion | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

5. Firefighting measures

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| Extinguishing media | Water, water/foam, CO ₂ , ABC fire extinguisher powder |
| Specific hazards | Carbon oxides, Nitrogen oxides (NO _x), Sulphur oxides or other toxic vapors. Thermal decomposition can lead to release irritating gases and vapors. |
| Protection for fire-fighters | Do not approach fire in confined space without positive pressure self-breathing apparatus and full bunker gear: bunker coats, helmet with face shield, gloves, rubber boots. Use NIOSH approved respiratory protection apparatus. |

6. Accidental release measures

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| Personal precautions | Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Avoid contact with skin and eyes. Avoid prolonged or repeated contact with skin |
| Environmental precautions | Prevent further leakage or spillage. Do not let product enter drains. Discharge into the environment must be avoided. |
| Cleaning up methods | Vacuum or sweep up and place in disposable container. |

7. Handling and storage

Precautions

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential.

Storage

Preferably store at temperatures $\leq 10^{\circ}\text{C}$. Keep container tightly closed and protect from water and acidic substances and high temperatures.

Incompatible products

Air and light sensitive. Store away from oxidizing agents.

8. Exposure controls/personal protection

Control parameters

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Adequate washing facilities, with supplies of mild soap and hand cleanser should be available at all working locations. Solvents should never be used as hand cleansers. Smoking, eating and drinking in working areas should be prohibited.

Respiratory protection

Not required under normal operation. For higher level protection use type Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye/face protection

Protective goggles or safety glasses should be worn. Use equipment for eye protection tested and approved under appropriate government standards

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

Body protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Control of environmental exposure

Do not let product enter drains

9. Physical and chemical properties

Physical state

Solid (at 20 °C)

Color

Opaque, off-white

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|---|--------------------------|
| Odor | No special odor |
| Odor Threshold | <i>No data available</i> |
| pH | <i>No data available</i> |
| Melting point/freezing point | <i>No data available</i> |
| Initial boiling point and boiling range | <i>No data available</i> |
| Flash point | <i>No data available</i> |
| Evaporation rate | <i>No data available</i> |
| Flammability (solid, gas) | <i>No data available</i> |
| Upper/lower flammability | <i>No data available</i> |
| Vapor pressure | <i>No data available</i> |
| Vapor density | <i>No data available</i> |
| Relative density | <i>No data available</i> |
| Water solubility | <i>No data available</i> |
| Partition coefficient: n-octanol/water | <i>No data available</i> |
| Auto-ignition temperature | <i>No data available</i> |
| Decomposition temperature | <i>No data available</i> |
| Viscosity | <i>No data available</i> |
| Explosive properties | <i>No data available</i> |
| Oxidizing properties | <i>No data available</i> |
| Density | <i>No data available</i> |

10. Stability and reactivity

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|------------------------------------|---|
| Reactivity | <i>No data available</i> |
| Chemical stability | Light sensitive |
| Possibility of hazardous reactions | Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides |
| Conditions to avoid | <i>No data available</i> |
| Incompatible materials | Strong acids, Strong bases, Strong oxidizing agents, Brass, Peroxides, Acid chlorides |

11. Toxicological information

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|-----------------------------------|--------------------------|
| Acute toxicity | <i>No data available</i> |
| Skin corrosion/irritation | <i>No data available</i> |
| Serious eye damage/eye irritation | <i>No data available</i> |
| Respiratory or skin sensitization | <i>No data available</i> |
| Germ cell mutagenicity | <i>No data available</i> |
| Carcinogenicity | <i>No data available</i> |
| Reproductive toxicity | <i>No data available</i> |

Specific target organ toxicity *No data available*

Additional information *No data available*

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

Toxicity *No data available*

Persistence/degradability *No data available*

Bio-accumulative potential *No data available*

Mobility in soil *No data available*

Results of PBT and vPvB assessment *No data available*

Ecotoxicity *No data available*

13. Disposal considerations

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. Transport information

General precautions Non-dangerous goods

Special precautions Non-dangerous goods

15. Regulatory information

For this product a chemical safety assessment was not carried out

16. Other information

No data available

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.