



XPS URETHANE-X A

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

1.1 Product identifier.

Product Name: XPS URETHANE-X A

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

Polyurethane coating

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **XTREME POLISHING SYSTEMS**
Address: 2200 NW 32 St. #700
City: Pompano Beach, FL 33069
Province: N/A
Telephone: (954) 958-5264
Fax:
E-mail: info@xtremepolishingsystems.com

1.4 Emergency telephone number: 1(800) 255-3924 (US CHEMTEL)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:
Flam. Liq. 3 : Flammable liquid and vapour.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

Warning

H statements:

H226 Flammable liquid and vapour.

P statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use foam, carbon dioxide, sand, water spray, dry chemical, to turn it off
P403+P235 Store in a well-ventilated place. Keep cool.
P501 isopose of contents / container in accordance with local legislation in force

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.





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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

| Identifiers | Name | Concentrate | (*)Classification - Regulation (EC) No 1272/2008 | |
|---|-------------------------------------|-------------|--|------------------------------|
| | | | Classification | specific concentration limit |
| Index No: 607-195-00-7 CAS No: 108-65-6 EC No: 203-603-9 Registration No: 01-2119475791-29-XXXX | [1] 2-methoxy-1-methylethyl acetate | 2.5 - 10 % | Flam. Liq. 3, H226 | - |
| Index No: 601-022-00-9 CAS No: 1330-20-7 EC No: 215-535-7 Registration No: 01-2119488216-32-XXXX | [1] xylene (Mixture of isomers) | 1 - 10 % | Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 | - |

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

No known acute or delayed effects from exposure to the product.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: FIREFIGHTING MEASURES.





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Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

5.1 Extinguishing media.

Recommended extinguishing methods.

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III)::





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| Code | Description | Qualifying quantity (tonnes) for the application of | |
|------|-------------------|---|-------------------------|
| | | Lower-tier requirements | Upper-tier requirements |
| P5b | FLAMMABLE LIQUIDS | 50 | 200 |

7.3 Specific end use(s).
Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

| Name | CAS No. | Country | Limit value | ppm | mg/m ³ |
|---------------------------------|-----------|--------------------|--------------------|------------|-------------------|
| 2-methoxy-1-methylethyl acetate | 108-65-6 | European Union [1] | Eight hours | 50 (skin) | 275 (skin) |
| | | | Short term | 100 (skin) | 550 (skin) |
| | | United Kingdom [2] | Eight hours | 50 | 274 |
| | | | Short term | 100 | 548 |
| xylene (Mixture of isomers) | 1330-20-7 | European Union [1] | Eight hours | 50 (skin) | 221 (skin) |
| | | | Short term | 100 (skin) | 442 (skin) |
| | | United Kingdom [2] | Eight hours | 50 | 220 |
| | | | Short term | 100 | 441 |

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

| Name | DNEL/DMEL | Type | Value |
|---|---------------------------|---|--------------------------|
| 2-methoxy-1-methylethyl acetate N. CAS: 108-65-6 N. CE: 203-603-9 | DNEL (Workers) | Inhalation, Long-term, Systemic effects | 275 (mg/m ³) |
| | DNEL (General population) | Inhalation, Long-term, Systemic effects | 33 (mg/m ³) |
| | DNEL (Workers) | Dermal, Long-term, Systemic effects | 153,5 (mg/kg bw/day) |
| | DNEL (General population) | Dermal, Long-term, Systemic effects | 54,8 (mg/kg bw/day) |
| | DNEL (General population) | Oral, Long-term, Systemic effects | 1,67 (mg/kg bw/day) |
| xylene (Mixture of isomers) N. CAS: 1330-20-7 N. CE: 215-535-7 | DNEL (Workers) | Inhalation, Long-term, Systemic effects | 77 (mg/m ³) |

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

| Name | Details | Value |
|---|------------------------------|---------------|
| 2-methoxy-1-methylethyl acetate N. CAS: 108-65-6 N. CE: 203-603-9 | aqua (freshwater) | 0,635 (mg/L) |
| | aqua (marine water) | 0,0635 (mg/L) |
| | aqua (intermittent releases) | 6,35 (mg/L) |
| | PNEC STP | 100 (mg/L) |





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| | | |
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| | sediment (freshwater) | 3,29 (mg/kg sediment dw) |
| | sediment (marine water) | 0,329 (mg/kg sediment dw) |
| | soil | 0,29 (mg/kg soil dw) |

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

| | |
|---|---|
| Concentration: | 100 % |
| Uses: | Polyurethane coating |
| Breathing protection: | |
| PPE: | Filter mask for protection against gases and particles. |
| Characteristics: | «CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight. |
| CEN standards: | EN 136, EN 140, EN 405 |
| Maintenance: | Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor. |
| Observations: | Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer. |
| Filter Type needed: | A2 |
| Hand protection: | |
| If the product is handled correctly, no individual protection equipment is necessary. | |
| Eye protection: | |
| If the product is handled correctly, no individual protection equipment is necessary. | |
| Skin protection: | |
| PPE: | Anti-static protective clothing. |
| Characteristics: | «CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements. |
| CEN standards: | EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5 |
| Maintenance: | In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer. |
| Observations: | The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use. |
| PPE: | Anti-static safety footwear. |
| Characteristics: | «CE» marking, category II. |
| CEN standards: | EN ISO 13287, EN ISO 20344, EN ISO 20346 |
| Maintenance: | The footwear should be checked regularly |
| Observations: | The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: N.A./N.A.

Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH: N.A./N.A.

Melting point: N.A./N.A.

Boiling Point: >100 °C





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Flash point: 26 °C
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density: N.A./N.A.
Relative density: 1,35 g/cm³
Solubility: N.A./N.A.
Liposolubility: N.A./N.A.
Hydrosolubility: N.A./N.A.
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: N.A./N.A.
Oxidizing properties: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

Flammable liquid and vapour.

10.4 Conditions to avoid.

Avoid the following conditions:

- High temperature.
- Static discharge.
- Contact with incompatible materials.
- Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

10.5 Incompatible materials.

Avoid the following materials:

- Explosives materials.
- Toxic materials.
- Oxidizing materials.

10.6 Hazardous decomposition products.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.
Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

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| Name | Acute toxicity | | | |
|--|--|---|-------------------|---------------------|
| | Type | Test | Kind | Value |
| xylene (Mixture of isomers) CAS No: 1330-20-7 EC No: 215-535-7 | Oral | LD50 | Rat | 4300 mg/kg bw [1] |
| | | [1] AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956 | | |
| | Dermal | LD50 | Rabbit | > 1700 mg/kg bw [1] |
| [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974 | | | | |
| Inhalation | LC50 | Rat | 21,7 mg/l/4 h [1] | |
| | [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974 | | | |

a) acute toxicity;
Not conclusive data for classification.

Acute Toxicity Estimate (ATE):
Mixtures:
ATE (Dermal) = 12.222 mg/kg

b) skin corrosion/irritation;
Based on available data, the classification criteria are not met.

c) serious eye damage/irritation;
Not conclusive data for classification.

d) respiratory or skin sensitisation;
Not conclusive data for classification.

e) germ cell mutagenicity;
Not conclusive data for classification.

f) carcinogenicity;
Not conclusive data for classification.

g) reproductive toxicity;
Not conclusive data for classification.

h) STOT-single exposure;
Not conclusive data for classification.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

| Name | Ecotoxicity | | | |
|-----------------------------|-------------|------|------|----------------------|
| | Type | Test | Kind | Value |
| xylene (Mixture of isomers) | Fish | LC50 | Fish | 15,7 mg/l (96 h) [1] |

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14.1 UN number.

UN No: UN1263

14.2 UN proper shipping name.

Description:

ADR: UN 1263, PAINT, 3, PG III, (D/E)

IMDG: UN 1263, PAINT, 3, PG III (26°C)

ICAO: UN 1263, PAINT, 3, PG III

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.

Labels: 3



Hazard number: 30

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 10 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E

Proceed in accordance with point 6.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

VOC content (p/p): 25 %

VOC content: 330 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): P5b

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

| Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|---|--|
| 11. Volatile esters of bromoacetic acids: (a) Methyl bromoacetate CAS No 96-32-2 EC No 202-499-2 | 1. Shall not be used, in jokes and hoaxes or in mixtures or articles intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. 2. Jokes and hoaxes, or mixtures or articles intended to be used as such, not |





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| (b) Ethyl bromoacetate CAS No 105-36-2 EC No 203-290-9 (c) Propyl bromoacetate CAS No 35223-80-4 (d) Butyl bromoacetate CAS No 18991-98-5 EC No 242-729-9 | complying with paragraph 1 shall not be placed on the market. 3. However, paragraphs 1 and 2 shall not apply to stink bombs containing not more than 1,5 ml of liquid. |
|--|---|

15.2 Chemical safety assessment.

There has been no evaluation a chemical safety assessment of the product.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

| | |
|------|-------------------------------|
| H226 | Flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H332 | Harmful if inhaled. |

Classification codes:

Acute Tox. 4 [Dermal] : Acute toxicity (Dermal), Category 4
Acute Tox. 4 [Inhalation] : Acute toxicity (Inhalation), Category 4
Flam. Liq. 3 : Flammable liquid, Category 3
Skin Irrit. 2 : Skin irritant, Category 2

Sections changed compared with the previous version:

1,2,7,11,14,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

| | |
|-------|--|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| CEN: | European Committee for Standardization. |
| DMEL: | Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum. |
| DNEL: | Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated. |
| EC50: | Half maximal effective concentration. |
| PPE: | Personal protection equipment. |
| IATA: | International Air Transport Association. |
| ICAO: | International Civil Aviation Organization. |
| IMDG: | International Maritime Code for Dangerous Goods. |
| LC50: | Lethal concentration, 50%. |
| LD50: | Lethal dose, 50%. |
| PNEC: | Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment. |
| RID: | Regulations Concerning the International Transport of Dangerous Goods by Rail. |

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

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The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

End of safety data sheet

