

EXTREM' WOOD - TOUPRET

SECTION 1 - IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY *

1-1 Product identifier : **EXTREM' WOOD – Component A**
 1-2 relevant identified uses of the mixture : **TWO PART POLYURETHANE WOOD REPAIR FILLER**
 1-3 Details of the supplier of the safety data sheet :
 Supplier : **TOUPRET UK LTD**
 Address : **Capital Business Centre - UNIT 58**
22 Carlton Road
South Croydon CR2 0BS - UK
 Telephone number : **+44 208 916 2134**
 Fax : **+44 208 916 2136**
 Email : fdstoupret@toupret.fr
 1-4 Emergency telephone number : **112**

SECTION 2 – HAZARDS IDENTIFICATION *

2-1 Classification of the mixture : (see section 16 where the full text)

Flam. Liq. 3 / H226

2-2 Label elements :

UFI : MUDG-SMAM-8RH7-GA75



WARNING

H226 : Flammable liquid and vapour.

P101 : If medical advice is needed, have product container or label at hand.

P102 : Keep out of reach of children.

P210 : Keep away from heat / sparks / open flames / hot surfaces. – No smoking.

P280 : Wear protective gloves / protective clothing / eye protection / face protection.

P 403 + P235 : Store in a well-ventilated place. Keep cool.

P501 : Dispose of contents / container to hazardous or special waste collection point.

2-3- Other hazards : The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

3-2 Mixtures : Product made of binder and additives.

substances	concentration	CAS number EC number registration number	Classification (section 16)
Naphta (petroleum) hydrotreated heavy	1 - 2.5 %	64742-48-9 265-150-3 01-2119463258-33	Flam. Liq. 3 – H226 – Asp. Tox. 1 H304
Hydrocarbons, C10-C12, isoalkanes <2% arocmatics	1 - 2.5 %	- 923-037-2 01-2119471991-29	Flam. Liq. 3 – H226 – Asp. Tox. 1 H304 – Aquatic. Chronic. 2 – H411

SECTION 4 - FIRST AID MEASURES

4-1 Description of first aid mesures : In all cases of doubt, or when symptoms persist, seek medical advice.

4-1-1 After inhalation : Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

4-1-2 After contact with the skin : Remove contaminated clothing immediately. Wash immediately with soapy water and rinse in order to eliminate the product. Do not use solvents or thinners.

- 4-1-3 After contact with the eyes : Rinse immediately and abundantly with water keeping the eyelids opened for at least 10 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.
- 4-1-4 After ingestion : NEVER give anything to someone unconscious. Rinse mouth, drink water and consult a doctor. Do not make throw up.
- 4-2 Most important symptoms and effects, both acute and delayed :
- 4-2-1 After inhalation : Respiratory tract irritation, inflammation of the nasal mucosa.
- 4-2-2 After contact with the skin : May irritate the skin moist. Prolonged contact may cause skin burns, sensitization, allergy.
- 4-2-3 After contact with the eyes : Mechanical irritation such as solid particles irritating. Irritation of the eyelids and corneal damage.
- 4-2-4 After ingestion : In large quantities: burns of the mouth, esophagus, stomach, digestive tract, nausea, vomiting.
- 4-3 Indication of any immediate medical attention and special treatment needed : In case of doubt, irritation persists or if symptoms persist seek medical advice or an ophthalmologist.

SECTION 5 - FIREFIGHTING MEASURES

- 5-1 Extinguishing media :
- Suitable extinguishing media : spray mist, (water), alcohol resistant foam, powders, carbon dioxide.
 - Unsuitable extinguishing media : strong water jet
- 5-2 Special hazards arising from the mixture : Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage. Do not allow fire-fighting effluent to penetrate into sewers or water courses.
- 5-3 Advice for firefighters : Appropriate protective equipment may be required. Cool closed containers that are near the source of the fire. Do not allow water used extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- 6-1 Personal precautions, protective equipment and emergency procedures :
- 6-1-1 For non-emergency personnel : Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.
- 6-1-2 For emergency responders : Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours..
- 6-2 Environmental precautions : Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.
- 6-3 methods and materials for containment and cleaning up :
- 6-3-1 Appropriate advice to contain a spill : Isolat leaked material using non-flammable absorption agent.
- 6-3-2 Appropriate advice to clean-up a spill : Collect the maximum of the product using non-flammable absorption agent (sand, earth, vermiculite, diatomaceous earth). Collect in closed containers. Clean using cleansing agents. Do not use solvents.
- 6-3-3 Any other information : another information
- 6-4 Reference to other sections : For residues disposal, refer to section 8 and 13.
Observe protective provisions, refer to section 7 and 8.

SECTION 7 - HANDLING AND STORAGE

- 7-1 Precautions for safe handling :
- 7-1-1 Recommendations shall be specified to
- allow safe handling : Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container.
 - prevent fire and explosions : Vapours are heavier than air. Vapours form explosive mixtures with air.
 - Reduce the release to the environment : Prevent any penetration into sewers or water courses.
- 7-1-2 Advice on general occupational hygiene : Not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing before entering eating areas.
- 7-2 Conditions for safe storage, including any incompatibilities : Keep container tightly closed. Store carefully

closed containers upright to prevent any leaks. Keep away from strongly acidic and alkaline materials as well as oxidizers. Store in a well-ventilated and dry room at temperatures between 15°C and 30 °C. Protect from heat and direct sunlight.

7-3 Specific end use :

No relevant.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8-1 Control parameters :

8-1-1 Occupational exposure limit values :

substances	CAS number	Long-term occupational exposure limit value	Short-term occupational exposure limit value
Naphta (petroleum) hydrotreated heavy	64742-48-9	1200 mg/m ³	800 mg/m ³

8-2 Exposure controls :

8-2-1 Appropriate engineering controls : Provide good ventilation : Working in a room equipped with a suction system, ventilated or aerated. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

8-2-2 Individual protection measures, such as personal protective equipment :



General hygiene measures : Not eat, drink and smoke in work areas. After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Eye / face protection : Wear closely fitting protection glasses in case of splashes.

Hand protection : For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber) Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Skin protection : Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Respiratory protection : If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

8-2-3 Environmental exposure controls : No datum is available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9-1 Information on basic physical and chemical properties :

- a) Appearance : liquid
- b) Odour : characteristic
- c) Odour threshold : not determined
- d) pH : not determined
- e) Melting point / freezing point : not determined
- f) Initial boiling point and boiling range : not determined
- g) Flash point : 30°C – method DIN 53213
- h) Evaporation rate : not determined
- i) Flammability : not determined
- j) Upper / lower flammability or explosive limits : not determined
- k) Vapour pressure : 0.16 mbar – 20°C
- l) Vapour density : not determined
- m) Relative density : approximately 1.02 – 20 °C
- n) Solubility : insoluble
- o) Partition coefficient : n-octanol/water : not determined
- p) Auto-ignition temperature : not determined
- q) Decomposition temperature : not determined
- r) Viscosity : > 900 s 8 mm – 20°C – method DIN 53211
- s) Explosive properties : lower explosion limit : 0.8 vol - %
Upper explosion limit : 7.0 vol - %

- t) Oxidising properties : not determined
- 9-2 Other information :
- Quantity of VOC : < 4%
 - Ignition temperature : 240 °C
 - Solvent separation test : < 3 % - method ADR-RID

SECTION 10 - STABILITY AND REACTIVITY

- 10-1 Reactivity : Not reactivity.
- 10-2 Chemical stability : Stable at ambient temperature and in normal use conditions.
- 10-3 Possibility of hazardous reactions : None dangerous reaction in normal conditions of storage. Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10-4 Conditions to avoid : Hazardous decomposition by products may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.
- 10-5 Incompatible materials : not determined.
- 10-6 Hazardous decomposition products : None dangerous decomposition products in normal conditions of storage.

SECTION 11 - TOXICOLOGICAL INFORMATION

No datum on the preparation itself is available.

11-1 Information on toxicological effects :

11-1-1 Mixture :

- a) Acute toxicity : Based on available data, the classification criteria are not met.
- b) Skin corrosion / irritation : Based on available data, the classification criteria are not met.
- c) Serious eye damage / irritation : Based on available data, the classification criteria are not met.
- d) Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.
- e) Germ cell mutagenicity : Based on available data, the classification criteria are not met.
- f) Carcinogenicity : Based on available data, the classification criteria are not met.
- g) Reproductive toxicity : Based on available data, the classification criteria are not met.
- h) STOT-single exposure : Based on available data, the classification criteria are not met.
- i) STOT-repeated exposure : Based on available data, the classification criteria are not met.
- j) Aspiration hazard : Based on available data, the classification criteria are not met.

11-1-2 Available information regarding substances in the mixture : No datum on the substance is available.

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

11-1-3 Information on likely routes of exposure :

Inhalation and exposure of the skin / eyes are the main routes of exposure. Effects are those solvents.

SECTION 12 - ECOLOGICAL INFORMATION

- 12-1 Toxicity : No datum on the substance and mixture are available.
- 12-2 Persistence and degradability : No datum on the substance is available.
- 12-3 Bioaccumulative potential : No datum on the substance is available.
- 12-4 Mobility in soil : No datum on the substance is available.
- 12-5 Results of PBT and vPvB assessment : No datum on the substance is available.
- 12-6 Other adverse effects : Do not discharge in sewers or water courses to avoid accumulation.

SECTION 13 - DISPOSAL CONSIDERATIONS

13-1 Waste treatment methods :

Type of waste : Hazardous waste : HP3

Waste code : 08-01-11 : waste paint and varnish containing organic solvents or other dangerous substances.

Product : Waste from residues or unused products to the extent possible, recycling is preferable to disposal. Storage in an approved landfill. Respect the local current regulations. Do not discharge the product in sewers or waterways.

Contaminated Packaging : Respect the local current regulations. Storage in an approved landfill.

SECTION 14 - TRANSPORT INFORMATION

- 14-1 UN number : UN 1263
- 14-2 UN proper shipping name : paint

14-3 Transport hazard class :	3 – flammable liquid
14-4 Packing group :	III
14-5 Environmental hazards :	not applicable
14-6 Special precautions for user :	transported always in closed, upright and safe containers.
14-7 Transport in bulk according to Annex II of MARPOL and the IBC Code :	not applicable
14-8 Limited Quantity :	LQ UN 1263

SECTION 15 - REGULATORY INFORMATION

15-1 Safety, health and environmental regulations/legislation specific for the mixture :	
- Directive 2004/42/CE :	not concerned
- Regulation 861/2010	3214 10 10
- Restrictions of occupation :	observe employment restrictions under the Maternity protection Directive for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the “juvenile work protection guideline”.
15-2 Chemical safety assessment :	Not affected by registration under REACH. No assessment has been carried out for the mixture. For the following substances of the mixture a chemical safety assessment has been carried out : Hydrocarbons, C10-C12, isoalkanes <2% aromatics – REACH number : 01-2119471991-29

SECTION 16 - OTHER INFORMATION *

Recommended uses (for more details, please refer to the technical data sheet) :

Users' conditions of work not being known to us, the information given in the present safety data sheet is based on our present knowledge and on both national and EC regulations.

This sheet completes the technical instructions for use, but does not replace them. The information it contains is based on our present knowledge relating to the product concerned, on the date indicated and are given in good faith. Moreover, users' attention is drawn to possible risks incurred when a product is used for other purposes than those for which it is designed.

It does not, in any case, exempt the user from knowing and applying all texts governing his activity. It is his responsibility, and his alone, to take all necessary precautions linked to the use he makes of the product.

The information given in the present sheet should be considered to be a description of the safety requirements relating to our products and not as a range of the properties of this.

The user is not in any way dispensed from finding out and implementing all the texts governing its activity. The user will be solely responsible for taking all the necessary precautions associated with the use he makes of the product.

The information given in this leaflet must be considered as a description of the safety requirements relating to our product, and not as a range of the product's properties.

The listed phrases refer to section 2 and 3 :

Flam. Liq. 3 / H226 : Flammable liquids – category 3 - Flammable liquid and vapour.

Asp. Tox. 1 / H304 : Aspiration hazard - category 1 - May be fatal if swallowed and enters airways.

Aquatic Chronic 2 / H411 : Hazardous to the aquatic environment – category 2 - Toxic to aquatic life with long lasting effects.

Key literature references :

- Regulatory 1907/2006/CE : according to REACH
- Regulatory 1272/2008/CE : according to CLP
- Directive 2004/42/CE : according to Volatile Organic Compounds
- Regulation 1357 / 2014 according to classification of waste.
- Regulation 861/2010 : according to customs nomenclature

(*) Alterations with regard to the previous version.

EXTREM' WOOD - TOUPRET

SECTION 1 - IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY *

1-1 Product identifier : **EXTREM' WOOD – Component B**
 1-2 relevant identified uses of the mixture : **HARDENER for Two part polyurethane wood repair filler.**
 1-3 Details of the supplier of the safety data sheet :
 Supplier : **TOUPRET UK LTD**
 Address : **Capital Business Centre - UNIT 58**
22 Carlton Road
South Croydon CR2 0BS - UK
 Telephone number : **+44 208 916 2134**
 Fax : **+44 208 916 2136**
 Email : **fdstoupret@toupret.fr**
 1-4 Emergency telephone number : **112**

SECTION 2 – HAZARDS IDENTIFICATION *

2-1 Classification of the mixture : (see section 16 where the full text)
 Flam. Liq. 2 / H225 – Acute Tox. 4 / H332 – Skin Irrit. 2 / H315 – Eye irrit. 2 / H319 – Resp. Sens. 1 / H334
 Skin Sens. 1 / H317 - Carc. 2 / H351 – STOT SE 3 / H335 – STOT RE 2 / H373

2-2 Label elements :

UFI : PRDG-8MN6-XRHQ-UYN3



DANGER

EUH204 : Contains isocyanates. May produce an allergic reaction.

H332 : Harmful if inhaled.

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

H317 : May cause an allergic skin reaction.

H351 : Suspected of causing cancer.

H335 : May cause respiratory irritation.

H373 : May cause damage to organs through prolonged or repeated exposure.

P102 : Keep out of reach of children.

P202 : Do not handle until all safety precautions have been read and understood.

P280 : Wear protective gloves / protective clothing / eye protection / face protection.

P260 : Do not breathe vapours.

P302 + P352 : IF ON SKIN : Wash with plenty of soap and water.

P501 : Dispose of contents / container to hazardous or special waste collection point.

2-3- Other hazards : The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

3-2 Mixtures : Product made of isocyanates.

substances	concentration	CAS number EC number registration number	Classification (section 16)
Diphenylmethane diisocyanate, isomers	25 – 50 %	618-498-9 9016-87-9 -	Acute Tox. 4 H332 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Carc. 2 H351 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 / STOT RE 2 H373
ethyl acetate	10 – 12.5 %	205-500-4 141-78-6 01-2119475103-46	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336

4,4'-methylenediphenyl diisocyanate	5 – 10 %	202-966-0 101-68-8 01-2119457014-47	Carc. 2 H351 / Acute Tox. 4 H332 / STOT RE 2 H373 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Resp. Sens. 1 H334 / Skin Sens. 1 H317
o-(p-isocyanatobenzyl)phenyl isocyanate	2.5 – 5 %	227-534-9 5873-54-1 01-2119480143-45	Carc. 2 H351 / Acute Tox. 4 H332 / STOT RE 2 H373 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Resp. Sens. 1 H334 / Skin Sens. 1 H317
2,2'-methylenediphenyl diisocyanate	0.5 – 1 %	219-799-4 2536-05-2 01-2119927323-43	Carc. 2 H351 / Acute Tox. 4 H332 / STOT RE 2 H373 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Resp. Sens. 1 H334 / Skin Sens. 1 H317
m-tolylidene diisocyanate	< 0.5 %	247-722-4 26471-62-5 01-2119454791-34	Carc. 2 H351 / Acute Tox. 2 H330 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412

SECTION 4 - FIRST AID MEASURES

- 4-1 Description of first aid measures : In all cases of doubt, or when symptoms persist, seek medical advice.
- 4-1-1 After inhalation : Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.
- 4-1-2 After contact with the skin : Remove contaminated clothing immediately. Wash immediately with soapy water and rinse in order to eliminate the product. Do not use solvents or thinners.
- 4-1-3 After contact with the eyes : Rinse immediately and abundantly with water keeping the eyelids opened for at least 10 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.
- 4-1-4 After ingestion : NEVER give anything to someone unconscious. Rinse mouth, drink water and consult a doctor. Do not make throw up.
- 4-2 Most important symptoms and effects, both acute and delayed :
- 4-2-1 After inhalation : Respiratory tract irritation, inflammation of the nasal mucosa.
- 4-2-2 After contact with the skin : May irritate the skin moist. Prolonged contact may cause skin burns, sensitization, allergy.
- 4-2-3 After contact with the eyes : Mechanical irritation such as solid particles irritating. Irritation of the eyelids and corneal damage.
- 4-2-4 After ingestion : In large quantities: burns of the mouth, esophagus, stomach, digestive tract, nausea, vomiting.
- 4-3 Indication of any immediate medical attention and special treatment needed : In case of doubt, irritation persists or if symptoms persist seek medical advice or an ophthalmologist.

SECTION 5 - FIREFIGHTING MEASURES

- 5-1 Extinguishing media :
- Suitable extinguishing media : spray mist, (water), alcohol resistant foam, powders, carbon dioxide.
 - Unsuitable extinguishing media : strong water jet
- 5-2 Special hazards arising from the mixture : Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage. Do not allow fire-fighting effluent to penetrate into sewers or water courses.
- 5-3 Advice for firefighters : Appropriate protective equipment may be required. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- 6-1 Personal precautions, protective equipment and emergency procedures :
- 6-1-1 For non-emergency personnel : Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.
- 6-1-2 For emergency responders : Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours..
- 6-2 Environmental precautions : Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.
- 6-3 methods and materials for containment and cleaning up :
- 6-3-1 Appropriate advice to contain a spill : Isolate leaked material using non-flammable absorption agent.
- 6-3-2 Appropriate advice to clean-up a spill : Collect the maximum of the product using non-flammable absorption agent (sand, earth, vermiculite, diatomaceous earth). Collect in closed containers. Clean using cleansing agents. Do not use solvents.
- 6-3-3 Any other information : another information

6-4 Reference to other sections : For residues disposal, refer to section 8 and 13.
Observe protective provisions, refer to section 7 and 8.

SECTION 7 - HANDLING AND STORAGE

7-1 Precautions for safe handling :

7-1-2 Recommendations shall be specified to

- allow safe handling : Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container.
- prevent fire and explosions : Vapours are heavier than air. Vapours form explosive mixtures with air.
- Reduce the release to the environment : Prevent any penetration into sewers or water courses.

7-1-2 Advice on general occupational hygiene : Not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing before entering eating areas.

7-2 Conditions for safe storage, including any incompatibilities : Keep container tightly closed. Store carefully closed containers upright to prevent any leaks. Keep away from strongly acidic and alkaline materials as well as oxidizers. Store in a well-ventilated and dry room at temperatures between 15°C and 30 °C. Protect from heat and direct sunlight. Remove all sources of ignition. Smoking is forbidden.

7-3 Specific end use : No relevant.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8-1 Control parameters :

8-1-1 Occupational exposure limit values :

substances	CAS number	Long-term occupational exposure limit value	Short-term occupational exposure limit value
4,4'-methylenediphenyl diisocyanate	101-68-8	0.02 mg/m ³	0.07 mg/m ³
ethyl acetate	141-78-6	730 mg/m ³ – 200 ppm	1460 mg/m ³ – 400 ppm

8-2 Exposure controls :

8-2-1 Appropriate engineering controls : Provide good ventilation : Working in a room equipped with a suction system, ventilated or aerated. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

8-2-2 Individual protection measures, such as personal protective equipment :



General hygiene measures : Not eat, drink and smoke in work areas. After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Eye / face protection : Wear closely fitting protection glasses in case of splashes.

Hand protection : For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber) Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Skin protection : Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Respiratory protection : If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

8-2-3 Environmental exposure controls : No datum is available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9-1 Information on basic physical and chemical properties :

- | | |
|---|---|
| a) Appearance : | liquid |
| b) Odour : | characteristic |
| c) Odour threshold : | not determined |
| d) pH : | not determined |
| e) Melting point / freezing point : | not determined |
| f) Initial boiling point and boiling range : | not determined |
| g) Flash point : | > - 4°C – method DIN 53213 |
| h) Evaporation rate : | not determined |
| i) Flammability : | not determined |
| j) Upper / lower flammability or explosive limits : | not determined |
| k) Vapour pressure : | 12.13 mbar – 20°C |
| l) Vapour density : | not determined |
| m) Relative density : | approximately 1.19 – 20 °C |
| n) Solubility : | insoluble |
| o) Partition coefficient : n-octanol/water : | not determined |
| p) Auto-ignition temperature : | not determined |
| q) Decomposition temperature : | not determined |
| r) Viscosity : | > 60 s 4 mm – 20°C – method DIN 53211 |
| s) Explosive properties : | lower explosion limit : 2.1 vol - %
Upper explosion limit : 11.5 vol - % |
| t) Oxidising properties : | not determined |

9-2 Other information :

- Quantity of VOC : 13%
- Ignition temperature : 425°C
- Solvent separation test : < 3 % - method ADR-RID

SECTION 10 - STABILITY AND REACTIVITY

- 10-1 Reactivity : Not reactivity.
- 10-2 Chemical stability : Stable at ambient temperature and in normal use conditions.
- 10-3 Possibility of hazardous reactions : None dangerous reaction in normal conditions of storage. Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10-4 Conditions to avoid : Hazardous decomposition by products may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.
- 10-5 Incompatible materials : not determined.
- 10-6 Hazardous decomposition products : None dangerous decomposition products in normal conditions of storage.

SECTION 11 - TOXICOLOGICAL INFORMATION

No datum on the preparation itself is available.

11-1 Information on toxicological effects :

11-1-1 Mixture :

- | | |
|--|---|
| k) Acute toxicity : | Based on available data, the classification criteria are not met. |
| l) Skin corrosion / irritation : | Based on available data, the classification criteria are not met. |
| m) Serious eye damage / irritation : | Based on available data, the classification criteria are not met. |
| n) Respiratory or skin sensitisation : | Based on available data, the classification criteria are not met. |
| o) Germ cell mutagenicity : | Based on available data, the classification criteria are not met. |
| p) Carcinogenicity : | Based on available data, the classification criteria are not met. |
| q) Reproductive toxicity : | Based on available data, the classification criteria are not met. |
| r) STOT-single exposure : | Based on available data, the classification criteria are not met. |
| s) STOT-repeated exposure : | Based on available data, the classification criteria are not met. |
| t) Aspiration hazard : | Based on available data, the classification criteria are not met. |

11-1-2 Available information regarding substances in the mixture : No datum on the substance is available.

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

11-1-3 Information on likely routes of exposure :

Inhalation and exposure of the skin / eyes are the main routes of exposure. Effects are those solvents.

SECTION 12 - ECOLOGICAL INFORMATION

12-1 Toxicity :	No datum on the substance and mixture are available.
12-2 Persistence and degradability :	No datum on the substance is available.
12-3 Bioaccumulative potential :	No datum on the substance is available.
12-4 Mobility in soil :	No datum on the substance is available.
12-5 Results of PBT and vPvB assessment :	No datum on the substance is available.
12-6 Other adverse effects :	Do not discharge in sewers or water courses to avoid accumulation.

SECTION 13 - DISPOSAL CONSIDERATIONS

13-1 Waste treatment methods :	
Type of waste :	Hazardous waste : HP3
Waste code :	08-01-11 : waste paint and varnish containing organic solvents or other dangerous substances.
Product :	Waste from residues or unused products to the extent possible, recycling is preferable to disposal. Storage in an approved landfill. Respect the local current regulations. Do not discharge the product in sewers or waterways.
Contaminated Packaging :	Respect the local current regulations. Storage in an approved landfill.

SECTION 14 - TRANSPORT INFORMATION

14-1 UN number :	UN 1263
14-2 UN proper shipping name :	paint
14-3 Transport hazard class :	3 – flammable liquid
14-4 Packing group :	III
14-5 Environmental hazards :	not applicable
14-6 Special precautions for user :	transported always in closed, upright and safe containers.
14-7 Transport in bulk according to Annex II of MARPOL and the IBC Code :	not applicable
14-8 Limited Quantity :	LQ UN 1263

SECTION 15 - REGULATORY INFORMATION

15-1 Safety, health and environmental regulations/legislation specific for the mixture :	
- Directive 2004/42/CE :	not concerned
- Regulation 861/2010	3214 10 10
- Restrictions of occupation :	observe employment restrictions under the Maternity protection Directive for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the “juvenile work protection guideline”.
15-2 Chemical safety assessment :	Not affected by registration under REACH. No assessment has been carried out for the mixture.

For the following substances of the mixture a chemical safety assessment has been carried out :

substances	CAS number EC number	registration number
ethyl acetate	205-500-4 141-78-6	01-2119475103-46
4,4'-methylenediphenyl diisocyanate	202-966-0 101-68-8	01-2119457014-47
o-(p-isocyanatobenzyl)phenyl isocyanate	227-534-9 5873-54-1	01-2119480143-45
2,2'-methylenediphenyl diisocyanate	219-799-4 2536-05-2	01-2119927323-43
m-tolyldiene diisocyanate	247-722-4 26471-62-5	01-2119454791-34

SECTION 16 - OTHER INFORMATION *

Recommended uses (for more details, please refer to the technical data sheet) :

Users' conditions of work not being known to us, the information given in the present safety data sheet is based on our present knowledge and on both national and EC regulations.

This sheet completes the technical instructions for use, but does not replace them. The information it contains is based on our present knowledge relating to the product concerned, on the date indicated and are given in good faith. Moreover, users' attention is drawn to possible risks incurred when a product is used for other purposes than those for which it is designed.

It does not, in any case, exempt the user from knowing and applying all texts governing his activity. It is his responsibility, and his alone, to take all necessary precautions linked to the use he makes of the product.

The information given in the present sheet should be considered to be a description of the safety requirements relating to our products and not as a range of the properties of this.

The user is not in any way dispensed from finding out and implementing all the texts governing its activity. The user will be solely responsible for taking all the necessary precautions associated with the use he makes of the product.

The information given in this leaflet must be considered as a description of the safety requirements relating to our product, and not as a range of the product's properties.

The listed phrases refer to section 2 and 3 :

Acute Tox. 4 / H332 Acute toxicity (inhalative) – category 4 - Harmful if inhaled.

Eye Irrit. 2 / H319 Serious eye damage/eye irritation – category 2 - Causes serious eye irritation.

STOT SE 3 / H335 Specific target organ toxicity (single exposure) - category 3 - May cause respiratory irritation.

Skin Irrit. 2 / H315 skin corrosion/irritation - category 2 - Causes skin irritation.

Carc. 2 / H351 Carcinogenicity - category 2 - Suspected of causing cancer.

Resp. Sens. 1 / H334 respiratory or skin sensitisation - category 1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 / H317 respiratory or skin sensitisation - category 1 - May cause an allergic skin reaction.

STOT RE 2 / H373 Specific target organ toxicity (repeated exposure) - category 2 - May cause damage to organs through prolonged or repeated exposure.

Flam. Liq. 2 / H225 flammable liquids – category 2 - Highly flammable liquid and vapour.

STOT SE 3 / H336 Specific target organ toxicity (single exposure) – category 3 - May cause drowsiness or dizziness.

Acute Tox. 2 / H330 Acute toxicity (inhalative) – category 2 - Fatal if inhaled.

Aquatic Chronic 3 / H412 Hazardous to the aquatic environment – category 3 - Harmful to aquatic life with long lasting effects.

Key literature references :

- Regulatory 1907/2006/CE : according to REACH
- Regulatory 1272/2008/CE : according to CLP
- Directive 2004/42/CE : according to Volatile Organic Compounds
- Regulation 1357 / 2014 according to classification of waste.
- Regulation 861/2010 : according to customs nomenclature

(*) Alterations with regard to the previous version.