

XYMERTOL PRIME

Revision Date: 22.11.2019



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

- 1.1 Product Identifier: XYMERTOL PRIME
 1.2 Relevant Identified Uses: Floor Coating
 1.3 Details of the supplier: Xymertec Ltd, Unit A, Linton Trading Estate, Bromyard, Herefordshire, HR7 4QT
 Telephone: +44 (0)1885 483124
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 1.4 Emergency Telephone: +44 (0)7910 117144

2. HAZARDS IDENTIFICATION (According to Regulation (EC) No1272/2008 [CLP])

- 2.1 Classification of the mixture or substance
 Physical and Chemical Hazards:
 Human health: 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
 Environment:

- 2.2 Label elements
 Label In Accordance With (EC) No. 1272/2008:

Signal Word: Danger

- Hazard Statements: H332 - Harmful if inhaled
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled
 H351 - Suspected of causing cancer
 H335 - May cause respiratory irritation
 H373 - May cause damage to organs through prolonged or repeated exposure
 Contains: Reaction mass of 4,4-methylenediphenyl diisocyanate & o-(p-isocyanatobenzyl) phenyl isocyanate
 Contains: Isocyanates, may cause an allergic reaction



- Precautionary Statements: P260+284 Do not breathe dust/vapour/spray, in case of inadequate ventilation wear respiratory protection
 P280 Wear protective gloves/clothing/eye protection/face protection
 P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position
 P302+352IF ON SKIN: Wash with plenty of soap and water
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes, remove contact lenses if present and easy to do so, continue rinsing
 P310 Immediately call a poison center/doctor

- 2.3 Other Hazards: None Known
 Results of PBT and vPvB assessment : This information is not required.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances: Not Applicable
 3.2 Mixtures

CAS No.	EC No.	Index No.	REACH Registration No.	Name	Classification according to Regulation (EC) No1278/2008	% By Weight
157937-75-2	665-576-3			Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1-methylenebis(isocyanatobenzene) methyloxirane and oxirane	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	
101-68-8	202-966-0		01-2119457014-47	4,4'-Methylene diphenyldiisocyanate	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	
26447-4040-5			01-2119457015-45	Reaction mass of 4,4-methylenediphenyl diisocyanate & o-(p-isocyanatobenzyl) phenyl isocyanate	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	

4. FIRST AID MEASURES

- 4.1 Description of first aid measures

General information

Take off immediately all contaminated clothing, including shoes. Obtain medical attention

Inhalation

Move patient from contaminated area to fresh air. If not breathing, give artificial respiration. **Obtain immediate medical attention.** Treatment is symptomatic.

Skin contact:

Wash immediately and thoroughly with soap and water. Obtain medical attention if irritation occurs

Eye contact:

Wash open eyes immediately and thoroughly for at least 15 minutes. **Obtain immediate medical attention.**

Ingestion

Do NOT induce vomiting. Give nothing to eat or drink. Wash mouth out with water Consult a physician.

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

Irritation

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed, surveillance for 48h. Treatment should be symptomatic.

5. FIRE FIGHTING MEASURES

- 5.1. Extinguishing media
 Foam, Carbon dioxide (CO₂), Dry Powder
 5.2. Special hazards arising from the substance or mixture
 Decomposition products may contain CO, CO₂, NO_x
 5.3. Advice for firefighters
 Isolate the scene, do not allow run-off from fire fighting to enter drains or water courses. In the event of fire, wear self-contained breathing apparatus and protective suit. Move undamaged containers if safe to do so.
 5.4 Further information
 No data available

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
 Use personal protective equipment. Ensure adequate ventilation or use appropriate respiratory protection. Evacuate personnel to safe areas. Avoid contact with the skin and the eyes. Avoid breathing vapour.

- 6.2. Environmental precautions
Do not let product enter drains. Do not flush into surface water. Do not release into the environment. Local authorities should be advised if significant spillages cannot be contained.
- 6.3. Methods and material for containment and cleaning up
Absorb with an inert absorbent material. Wash with plenty of water
- 6.4. Reference to other sections
Collect and dispose of spillage as indicated in section 13.

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling
Wear appropriate PPE. Avoid contact with skin and eyes, inhalation of vapours and mists. Persons with a history or skin sensitisation, asthma or allergies should not use the product. Use local exhaust ventilation. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Keep in the original container, tightly closed
See section 2.2 for precautions and section 8 for recommended personal protective clothing
- 7.2. Conditions for safe storage, including any incompatibilities
Store in tightly closed original container at 10-35°C in a well-ventilated place. Protect from freezing, moisture and direct sunlight. Keep securely closed and store locked up, may react with moisture.
- 7.3 Specific end use(s)
See section 1.2

8. HANDLING AND STORAGE

8.1. Control Parameters

Component	STEL - 15m	TWA - 8hrs	DNELS (Inhalation)	DNELS (Dermal)
4,4'-Methylene diphenyldiisocyanate	0.07 mg/m3	0.02 mg/m3	Long term: 0.025 mg/m3 (consumers) Short term: 0.05 mg/m3 (consumers)	Short term: 17.2 mg/cm2 (consumers)
Reaction mass of (above) with o-(p-isocyanatobenzyl) phenyl isocyanate	0.07 mg/m3	0.02 mg/m3	Long term: 0.025 mg/m3 (consumers) Short term: 0.05 mg/m3 (consumers)	Short term: 17.2 mg/cm2 (consumers)

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Provide adequate ventilation. MDI can only be smelled if the exposure limit has been considerably exceeded.

Eye/face protection

Closely fitting safety goggles

Skin protection

Handle with chemical resistant (EN374) gloves.

Body protection

Wear apron or protective clothing based on task being performed and risks involved

Respiratory protection

In case of inadequate ventilation, use suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
- Appearance Form: amber liquid
 - Odour: Solvent
 - Odour Threshold: No data available
 - pH: No data available
 - Melting point/freezing point: No data available
 - Initial boiling point: >200 °C
 - Flash point: >100 °C
 - Evaporation rate: No data available
 - Flammability (solid, gas): No data available
 - Upper/lower flammability or explosive limits: No data available
 - Vapour pressure: No data available
 - Vapour density: >1
 - Relative density: 1.06 g/mL at 20 °C
 - Water solubility: insoluble

- 9.2 Other information
No data available

10. STABILITY AND REACTIVITY

- 10.1 Reactivity
No data available
- 10.2 Chemical stability
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions
Reaction with water produces CO₂ gas. Exothermic reaction with materials containing active hydrogen groups
- 10.4 Conditions to avoid
Stable under normal conditions
- 10.5 Incompatible materials
Water, alcohols, amines, bases and acids
- 10.6 Hazardous decomposition products
Combustion products may contain CO, CO₂, HCN, NO_x.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects of the main substances in the mixture:

4,4'-Methylene diphenyldiisocyanate

Acute toxicity: Dermal LD50 >9 400 mg/kg (rat)

Oral LD50 >10 000 mg/kg (rat)

Inhalation LC50 0.49 mg/L (rat)

Irritation/Corrosion: Skin & Eye Irritant

Sensitiser: Skin & Respiratory sensitiser

Mutagenicity: Negative

Carcinogenicity: Positive (Inhalation in rats, 5days/week, 2years)

Reproductive Toxicity: NOAEL 12mg/m³ (rat)

Specific Target Organ Toxicity: Respiratory tract irritation

Reaction mass of 4,4'-Methylene diphenyldiisocyanate with o-(p-isocyanatobenzyl) phenyl isocyanate

Acute toxicity: Dermal LD50 >9 400 mg/kg (rat)

Oral LD50 >10 000 mg/kg (rat)

Inhalation LC50 0.49 mg/L (rat)

Irritation/Corrosion: Skin & Eye Irritant

Sensitiser: Skin & Respiratory sensitiser

Mutagenicity: Negative

Carcinogenicity: Positive (Inhalation in rats, 5days/week, 2years)

Reproductive Toxicity: NOAEL 12mg/m³ (rat)

Specific Target Organ Toxicity: Respiratory tract irritation

Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1-methylenebis(isocyanatobenzene) methyloxirane and oxirane

Acute toxicity: Dermal LD50 >9 400 mg/kg (rat)

Oral LD50 100 mg/kg (rat)

Inhalation LC50 0.49 mg/L (rat)

Irritation/Corrosion: Skin & Eye Irritant

Sensitiser: Skin & Respiratory sensitiser

Mutagenicity: Negative

Carcinogenicity: Positive (Inhalation in rats, 5days/week, 2years)

Reproductive Toxicity: NOAEL 12mg/m³ (rat)

Specific Target Organ Toxicity: Respiratory tract irritation

Potential health effects: Product is a respiratory irritant and may cause respiratory sensitisation. Prolonged or repeated exposure may cause damage to organs (respiratory tract).

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity (Aquatic, Reaction mass of 4,4'-Methylene diphenyldiisocyanate with o-(p-isocyanatobenzyl) phenyl isocyanate)
- Endpoint: LC50 - Species: Fish = >1000 mg/l - Duration h: 96
- Endpoint: LC50 - Species: Bacteria = >100 mg/l - Duration h: 3
- Endpoint: EC50 - Species: Daphnia = >1000 mg/l - Duration h: 24

(Aquatic, Methyloxirane, polymer with oxirane, ether with oxybis(propanol), polymer with 1,1-methylenebis (isocyanatobenzene) methyloxirane and oxirane)

Endpoint: LC50 - Species: Fish = >1000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Bacteria = >100 mg/l - Duration h: 3

Endpoint: EC50 - Species: Daphnia = >1000 mg/l - Duration h: 24

12.2 Persistence and degradability

Not biodegradable

12.3 Bioaccumulative potential

High

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Hazardous Waste. Dispose of waste and residues in accordance with local authority requirements. The product should not be allowed to enter drains, watercourses or soil

14. TRANSPORT INFORMATION

Not regulated for shipping

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H332 - Harmful if inhaled

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled

H351 - Suspected of causing cancer

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure

Further information

Users of products supplied by Xymertec should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH). All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent. All goods are supplied subject To Xymertec's General Conditions of Sale.