

HEALTH AND SAFETY DATA SHEET

1 Identification

Name **IRJ HEAD REPAIR – TEROSON 6700 (HARDENER COMPONENT)**
Supplier Rivval Ltd
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Carrickasedge
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Co. Monaghan
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2 Composition information

General chemical description. Hardening component of 2-component PU adhesive.

Base substance of preparation. 4,4'-methylenediphenyl diisocyanate (MDI)

Declaration of ingredients.

| Ingredient name | CAS No. | Wt% | R phrases | Symbol |
|-------------------------------------|----------|------|--------------------|--------|
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | <15% | 20, 36/37/38,42/43 | Xn |

3 Hazards identification

R36/37/38 – Irritating to eyes, respiratory system and skin

R42/43 – May cause sensitisation by inhalation and skin contact.

Persons suffering from allergic reactions to isocyanates should avoid contact.

4 First aid measures

Inhalation. Fresh air, consult doctor if complaints persist.

Eye contact. Wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor.

Skin contact. Rinse with running water and soap. Remove contaminated clothing immediately.

Ingestion. Seek medical advice immediately and show the container or label.

5 Fire fighting measures

Extinguishing media. All common extinguishing agents.

Protective equipment. Wear self-contained breathing apparatus. Wear protective equipment.

Hazardous combustion products. Isocyanate vapours.

6 Accidental release measures

Personal protection. Ensure adequate ventilation. Avoid contact with skin and eyes. Keep unprotected people away.

Environmental precautions. Do not empty into drains/surface water/ground water.

Method of cleaning up. Neutralise any spillages with a mixture of alcohol, water and wetting agent, if necessary adding 1% ammonia relative to the isocyanate groups.

7 Handling & storage

Handling. Ensure good ventilation/suction at the workplace. Avoid skin and eye contact.

Storage. Store in a cool, dry place. Storage at 10 to 30 deg C is recommended.

8 Exposure & personal protection

Components with specific control parameters for the workplace.

| Ingredient | mg/m ³ | Type | Remarks |
|-------------------------------------|-------------------|---------------------------|---------|
| 4,4'-methylenediphenyl diisocyanate | 0.02 | Time Weighted Ave | |
| diphenylmethane-4,4'-diisocyanate | | (TWA) | |
| 4,4'-methylenediphenyl diisocyanate | 0.07 | Short Term Exposure Limit | |
| diphenylmethane-4,4'-diisocyanate | | (STEL) | |
| 4,4'-methylenediphenyl diisocyanate | | | Listed |
| diphenylmethane-4,4'-diisocyanate | | | |

Respiratory protection. Suitable breathing mask when there is inadequate ventilation.

Hand. Chemical-resistant gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374) are Polychloroprene (CR \geq 1mm thickness) or natural rubber (NR \geq 1mm thickness). Suitable materials for longer direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR \geq 1mm thickness) or natural rubber (NR \geq 1mm thickness). Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as result of the many influencing factors (E.G. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection. Goggles which can be tightly sealed.

General protection and hygiene measures. Do not eat, drink or smoke while working. Avoid skin and eye contact. Wash off any dirt that gets onto the skin with plenty of water and soap.

9 Physical properties

| | |
|---|------------------------|
| Appearance: | liquid |
| Odour: | earthy |
| Colour: | black |
| Density: | 1.70 g/cm ³ |
| Solubility in alcohol | insoluble |
| Solid content : | 100% |
| Viscosity (dynamic): (Brookfield, 20°C) | 26-32pa.s |

10 Stability & reactivity

Conditions to avoid. Avoid moisture and temperatures over approx 250°C.

Materials to avoid. Reaction with water and formation of CO₂.

Hazardous decomposition products. At higher temperatures isocyanate may be released.

11 Toxicological information

General toxicological information. The product is a chemical preparation within the meaning of the Chemicals Act. The following evaluation has been made on the basis of the toxicological data and content by weight of the individual ingredients.

Acute inhalative toxicity. Irritating to respiratory system.

Skin irritation. Primary skin irritation: irritating

Eye Irritation. Primary eye irritation: irritating.

Sensitising. May cause sensitisation by inhalation. May cause sensitisation by skin contact.

12 Ecological information

General ecological information. Do not empty into drains, soil or bodies of water.

13 Disposal considerations

Disposal methods. The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

Waste code (EWC): 080501; 080410 (after hardening with component A)

14 Transportation information

General information: Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

15 Regulatory information

Product name: Teroson 6700 (hardener)
Supply symbol: Xn – Harmful
Hazard trigger: Diphenylmethane diisocyanate 4.4'-
Risk phrases: R36/37/38 Irritating to eyes, respiratory system and skin
R42/43 May cause sensitisation by inhalation and skin contact
Safety phrases: S2 Keep out of reach of children
S23 Do not breathe gas/fumes/vapour/spray
S26 In case of contact with eyes, rinse with plenty of water and seek medical advice
S28 After contact with skin, wash immediately with plenty of water
S51 Use only in well ventilated areas.

Special declaration. Contains isocyanates. Observe manufacturer's instructions.

National regulations/information. VOCV 814.018 VOC regulation CH: 0.0%

16 Other information

The information contained in this document is furnished without warranty of any kind. Users should consider this data only as a supplement to other information gathered by themselves and must make independent determinations of the suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of their employees and customers.