

MATERIAL SAFETY DATA SHEET DIRECTIVE 91/155/EEC**1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION**

1.1 Product material and name: Ligature Tie.

1.2 Company Identification:

ATS Plier Service GmbH & Co.KG, An der Feldriede 2, 49205 Hasbergen.

1.3 Emergency Contact: +49 5405 9204 – 0

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	%
Polyurethane	9009-54-5	100

3. HAZARDS IDENTIFICATION

Polyurethane:

No observed health hazards

4. FIRST-AID MEASURES

4.1 Inhalation: Move person to fresh air until recovered. Consult a physician.

4.2 Skin Contact: Not Applicable.

4.3 Eye Contact: Not Applicable.

4.4 Ingestion: While ingestion of large enough quantities to cause health effects is unlikely. Consult a physician if it occurs.

5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media: sand

5.2 Unsuitable Extinguishing Media: N/A

5.3 Particular Hazards: See step 3

5.4 Protective Equipment for Fire-Fighters: N/A

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:

Ventilation: If your process causes a release of dust or fume, use local and general exhaust ventilation to keep airborne concentrations of dust or fumes below the TLV. Respiratory

Protection: If your process causes a release of dust or fume in excess of the permissible exposure limit, use approved respirators for protection against airborne dust or fumes should be worn.

Respirators should be used in accordance with 29CFR 1910.134. Protective Equipment: Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis. If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn.

6.2 Environmental Precautions: No hazard

6.3 Cleaning Methods: N/A

7. HANDLING AND STORAGE

7.1 Handling: See step 6.1

7.2 Storage: N/A

7.3 Storage Conditions: Cool, Room temperature, Dry

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Minimize contact as outlined in step 6.1

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical State: Elastomer

9.2 Odor: None

9.3 Color: Different colors

10. STABILITY AND REACTIVITY

10.1 Thermal Decomposition: None

10.2 Conditions to Avoid: Avoid strong acids

10.3 Materials to Avoid: Avoid strong acids

10.4 Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

11.1 Oral Toxicity: Reference Step 3 and Step 6.1

11.2 Inhalation: Reference Step 3 and Step 6.1

11.3 Skin Irritation: Reference Step 3 and Step 6.1

11.4 Sensitization: Reference Step 3 and Step 6.1

11.5 Eye Irritation: Reference Step 3 and Step 6.1

11.6 Further Details: None

12. ECOLOGICAL INFORMATION

12.1 Acute Toxicity in Fish (LC-50/48h): not defined

12.2 Bacteria Toxicity (EC-0): not defined

12.3 Biodegradability: not defined

12.4 Further Details: None

13. DISPOSAL CONSIDERATIONS

13.1 Product: N/A

13.2 Packaging: N/A

13.3 Waste Disposal Code: N/A

14. TRANSPORT INFORMATION

14.1 Overland Transport ADR/RID/GGVS/GGVE: N/A

14.2 Sea Transport GGVSEA/IMDG-Code: N/A

14.3 Air Transport ICAO/IATA-DGR: N/A

14.4 Inland Waterway Transport ADNR: N/A

14.5 Further Details: Product is not considered dangerous for transport

15. REGULATORY INFORMATION

EU medical device directive: 93/42 E 9EC

MANUFACTURER DISCLAIMER: FOR ORTHO USE ONLY:

Use as directed. The information and recommendations are taken from sources (raw material MSDS(s) and manufacturer's knowledge) believed to be accurate. Orthodontics makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether

16. OTHER INFORMATION

16.1 The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. Therefore, it should not be construed as guaranteeing specific properties.