

SAFETY DATA SHEET

PRODUCTS RELATED TO THIS MSDS

SAFETY MODULES

LIP BUMPERS

IDENTIFICATION OF THE MATERIAL

BODY: AISI 301 - Polymer, K-Resin Copolymer

STRAP: Polyurethane

CHEMICAL COMPOSITION

BODY

METAL PART

| Element / Weight (%) | | | | | |
|----------------------|----------|-----------|------------|----------|------------|
| IRON | CHROMIUM | MANGANESE | MOLIBDENUM | CARBON | PHOSPHORUS |
| Balance | 19~23 | 21~24 | 0.50~1.50 | ≤0.80 | ≤0.03 |
| NICKEL | SULFUR | COBALT | SILICON | NITROGEN | COPPER |
| ≤0.05 | ≤0.01 | ≤0.80 | ≤0.75 | ≤0.90 | ≤0.25 |

PLASTIC PART. K-Resin Styrene-butadiene copolymer, CAS # 9003-55-8

STRAP

Polyurethane from Methylenediphenyl CAS# 03783-28-1 >98%

Disocyanate, 1,

4-butanediol,

Polytetramethylene glycol Additives <2%

PHYSICAL - CHEMICAL PROPERTIES AND FLAMMABILITY

| | | | |
|-------------------------|---------------|---------------------------|-------------|
| Appearance | Solid plastic | Color | Translucent |
| Odor | Odorless | Safety Data | None |
| Ph-value | None | | |
| <i>Change of status</i> | | | |
| Bowling point | n.a. | Melting point | n.a. |
| Combustion rate | n.a. | Flammability | > 100°C |
| Ignition temperature | n.a. | Auto-ignition temperature | n.a. |
| Comburent capability | n.a. | Explosion limit | n.a. |

ORTHODONTIC MANUFACTURER SIA SRL

Sede Legale: Via Aristide Leonori,113 - 00147 Roma **Uffici e Stabilimento:** Zona Ind.le snc - 81050 Rocca d'Evandro (CE) Italy
Recapiti: Tel: +39 (0)823 908029 Fax: +39 (0)823 908028 **Email:** info@siaorthodontics.com - www.siaorthodontics.com

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| | | | |
|---|-----------|----------------|------------------------|
| Vapor density | > 1 | Density at 20° | 1,22 g/cm ³ |
| <i>Solubility and scattering features</i> | | | |
| Soluble in water | Insoluble | Soluble in fat | Insoluble |
| Scattering coefficient | None | | |

REACTIVITY

⇒ **Stability and reactivity:** stable and not reactive

HAZARDS IDENTIFICATION

Information on toxicity: This material is not hazardous in normal storage and handling. However, all thermoplastic materials release some vapours or gases at high temperature.

Possible hazards during the working process:

Not hazardous Ingestion: While health effects caused by ingestion of large quantities is unlikely, consult a physician if it occurs

Skin contact: no documented irritations

Eye contact: no documented irritations

Inhalation: N/A

⇒ **Possible cancer hazard:** Nickel is treated as a potential agent, being included in the NTP and IARC lists. Some scientific studies have found an excessive incidence of cancer of the respiratory tract among workers involved in certain steps of nickel refining processes. However, several studies on workers exposed to various forms of nickel and its compounds have not shown any increased risk of cancer.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory-Protection: not required

Skin-Protection: none

Eye-Protection: only required when cutting, grinding or welding

FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: Water spray, CO₂, Dry Chemical

Fire and Explosion hazard: none

Special Fire Fighting Procedures: none

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MISCELLANEOUS

N/A = Not Applicable

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The manufacturer assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

According to the Directive 67/548/EEC all products with a minimum Nickel content of 1% are classified in the same way as suspect carcinogen (category 3) and irritating for skin. Products which these sheets refer to, have form of massive metal alloy, therefore nickel cannot develop as possible hazardous material. No toxic effects caused by the material in massive form or during the normal orthodontic practices have been noticed. A prolonged and frequent contact may cause skin irritation and other allergic reactions in subjects sensitive to nickel.