



Excelsior™ Pliers

1 – IDENTIFICATION

PRODUCT NAME: Excelsior Pliers

CHEMICAL FAMILY: Steel

FORMULA: Iron Base Alloy

COMPANY NAME:

Orthodontic Design and Production

1370 Decision Street, Suite D

Vista, CA 92081 (760) 734-3995

2 – HAZARDOUS INGREDIENTS

N/a

3 – HEALTH HAZARD DATA

THE DESIGN The design of the device may have inherent sharp margins, edges, ratchets, teeth, serration, screws, and pins. Examples include pliers, hemostatic forceps, dental tweezers, scissors and so on. Such sharp margins may lead to physical injury, though minor. These may also result in puncturing of the surgical gloves leading to other complication of cross-infections of Hepatitis B etc, during surgical procedure.

The blades of the scissors, which are very sharp, also come under this hazard, though they form part of the functional area.

RUST an injury to open surgical wounds resulting in contamination of the wounds, leading to cellular injury. Low injury risk.

CRACKS/PITS AND SUCH DEFECTS these will result in breakage of the instruments plus a fertile area for corrosion. Low injury risk.

FUNCTIONAL FAILURE such as scissors, which do not perform cutting action result in risk to the patient during a surgical procedure. Low injury risk.

4 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: n/a

VAPOR PRESSURE: n/a

VAPOR DENSITY: n/a (Air=1.00)

SOLUBILITY IN WATER: Insoluble

PHYSICAL FORM: Solid metal/ metal alloy

COLOR: Grey

ODOR: no odor

SPECIFIC GRAVITY (H2O=1.00): n/a

% VOLATILE BY VOLUME: n/a

MELTING POINT: n/a

EVAPORATION RATE: n/a

pH: n/a

VISCOSITY: n/a

FREEZING POINT: n/a

Note: This MSDS was prepared in accordance with the requirements of the OSHA Haard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information contained in this MSDS is, to the best of our knowledge, believed to be accurate.
CONTACT CHEMTREC (800) 424-3900 IN CASE OF EMERGENCY

MATERIAL SAFETY DATA SHEET

5 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: n/a

FLAMMABLE LIMITS: n/a

AUTO IGNITION TEMPERATURE: n/a

MELTING POINT n/a

GENERAL HAZARD: In the form shipped, these specialty metals are not combustible. Note: Special care may be required for fire fighting the metal, if reduced to particulates (dust).

FIRE FIGHTING INSTRUCTIONS:

No special equipment for product as shipped

FIRE FIGHTING EQUIPMENT:

No special equipment for product as shipped

HAZARDOUS COMBUSTION PRODUCTS:

In the form shipped, hazardous decomposition products are not expected.

6 – REACTIVITY DATA

GENERAL: As shipped, this product is stable and hazardous polymerization will not occur

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

N/a

HAZARDOUS DECOMPOSITIONS: none for this product as shipped

7 – EMERGENCY/FIRST AID MEASURES

As shipped, steel is an article. The likelihood for hazardous consequences through eye or skin contact, inhalation or ingestion would be considered minimal.

8 – HANDLING AND STORAGE

STORAGE TEMPERATURE: n/a

STORAGE PRESSURE: n/a

GENERAL: Store material away from acids and oxidizers

9 – SPECIAL PROTECTION

VENTILATION: The use of local exhaust ventilation is recommended to control emissions near the source of where the metal is being altered (i.e. welding, grinding, etc)

EYE PROTECTION and PROTECTIVE CLOTHING: Wear appropriate personal protective equipment based on operations performed, such as safety glass with side shields, when grinding or sawing the product.

When handling the product, leather gloves are recommended. If industrial hygiene monitoring reveals an overexposure during the processing of the product, engineering controls are required to be installed to reduce exposures below OSHH permissible exposure limits. In the absence of feasible engineering controls, wear a NIOSH approved respirator for protection for the type of particulate generated.



Excelsior™ Pliers

MATERIAL SAFETY DATA SHEET

10 – SPILL OR LEAK PROCEDURES

LAND/WATER SPILL: As shipped this product does not pose a hazard to the environment

11 – DISPOSAL INFORMATION

GENERAL Recycling of all metallic byproducts as scrap is strongly encouraged. If byproducts need to be treated and/or disposed of as wastes, hazardous waste characterizations must be performed prior to treating and/or disposing. Contact appropriate parties to ensure compliance with all federal, state, and local rules and regulations related to waste treatment and disposal.

12 – REGULATORY INFORMATION

TSCA (Toxic Substances Control Act): n/a

CERCLA

(Comprehensive Response Compensation and Liability Act): n/a

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 HAZARDOUS CATEGORIES: Not applicable for storage of item as shipped; however if process, user end product may require reporting.

313 REPORTABLE INGREDIENTS:

Product ingredients subject to reporting requirements may include: chromium, nickel, manganese, cobalt, and copper.

13 – DISCLAIMER OF WARRANTIES

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy of completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for his or her particular purpose(s).