

## 2.6.7 SouCon material safety data sheet



**WARNING!**

**Welding rollers / roller heads designed for operation with SouCon as the contact fluid may ONLY be operated with SouCon.**

**SouCon** is an electrically conductive medium and is used in roller heads / welding rollers as an alternative to other substances such as mercury (Hg).

According to Regulation (EC) No. 1907/2006.

**Hazard designation:**

Omitted

**Additional hazard information for humans and the environment:**

If the usual requirements for industrial hygiene are observed, handling this product comes with no significant risk.  
The product entails no risk of fire or explosion.

**Composition / component parts:**

Gallium  
CAS No.: 7440-55-3 / EINECS No.: 231-163-8  
Indium  
CAS No.: 7440-74-6 / EINECS No.: 231-180  
Tin  
CAS No.: 7440-31-5 / EINECS No.: 231-141-8

**First-aid measures**

General information: No general information is necessary.  
If inhaled: Inhalation does not present any possibility of exposure.  
If in contact with skin: Wash with water and soap.  
If in contact with eyes: Rinse with lukewarm water with lids held open; if necessary, consult a doctor.  
If swallowed: Stay calm, go to the doctor, show them the material safety data sheet.  
Information for the doctor: No special measures are known, undertake symptomatic treatment.

**Firefighting measures**

Suitable extinguishing agent: The product is not flammable.  
Unsuitable extinguishing agent: Spray water not suitable for overheated material.  
Particular hazard, from the substance, preparation, combustion products, gases: Wear protective equipment/respiratory protection if gases/oxides develop.  
Particular protective equipment for fighting fires: Wear respiratory protection depending on the ambient air.  
Additional information: None

**SouCon material safety data sheet** (continued):**Measures in the event of unintentional release**

Person-related precautions:	Keep in mind the possible risk of slipping if the product is leaking/ measures spilled.
Environmental protection measures:	Do not allow the material to enter wastewater. Non-water polluting (own classification).
Cleaning/absorption process:	Absorb large quantities (syringe) or sweep into plastic containers (no aluminium containers) for recovery measures. Remove any product residue using a soap solution. Avoid dust formation.

**Handling and storage**

Information about safe handling:	Avoid spilling. Avoid unnecessary chemical contact. Handling unpackaged SouCon can change its quality and degree of purity. ANDRITZ Soutec AG is not liable for changes in product quality that may occur during processing.
Information about fire and explosion protection:	No special measures required.
Storage conditions:	Do not store with oxidising and azide substances.

**Restriction and monitoring of exposure / personal protective equipment**

Occupational exposure limits (OEL) Germany:	Components with workplace-specific exposure limits to be monitored: omitted.
Respiratory protection:	In the event of damage with oxide smoke developing, P3 respiratory protection
Hand protection:.	In the event of repeated and ongoing skin contact → glove material: Nitrile rubber. If required, use a rehydrating skin cream.
Eye protection:	In the event of possible eye contact from splashes, wear safety goggles.
Physical protection:	If there is a risk of splashing or other possible physical contact, wear suitable work clothing.
Work hygiene:	Wash your hands after work and before breaks (industry hygiene).

**Physical and chemical properties**

Physical state:	Liquid
Colour:	Silver
Smell:	Odourless
Risk of explosion:	None
Steam pressure:	< 10(-8) Torr
Density:	6.44 g/cm <sup>3</sup>
Draining time:	Not applicable
Water solubility:	Insoluble
Boiling point/range:	> 1300 °C

**SouCon material safety data sheet** (continued):

**Stability and reactivity**

Conditions to avoid:	Exothermic with aluminium and subsequent addition of water!
Substances to be avoided:	Halogens, hydrogen peroxide / hydrogen chloride, chlorine, bromine, aluminium. Dangerous reactions with strong acids and oxidation agents.
Hazardous degradation products:	None if used properly
Further information:	The product creates superficial alloys with metals such as copper, tin, lead, zinc, gold, and silver; light metals, are also superficially alloyed, especially when these are free of oxides. If applicable, in the specific cases the product should be checked for reactions with materials and chemical substances.

**Toxicological information**

Experience from practice – Effect on humans:	No impairment if used properly and taking into account general work hygiene regulations.
Information about the component substances:	Estimation from the raw materials: Based on the available data materials about the toxicity of the individual components and their proper use, and according to our experience, this product causes no harmful effects.

**Environment / disposal**

Ecotoxicity:	Quantitative data about the ecological effect of this product is not available to us.
Information about disposal:	<i>Recommendation:</i> Proper use or recycling are preferable to disposal. Removal according to the locally applicable laws and regulations for waste removal (official duty of disclosure).

**Information about transportation**

The transport regulations are cited according to the international rules and in the form that they are applied in Germany. Possible deviations in other countries are not considered.

Transport by land (ADR / RID / GGVSE):	Class: 8 Hazard label: 8 UN No.: UN 2803 Packaging group: III Description of goods: 2803 GALLIUM
Transport by sea (IMDG Code / GGVSee):	Class: 8 UN No.: 2803 Packaging group: III Marine pollutant: no marine pollutant
Transport by air (ICAO-IATA / DGR):	Class: 8 UN No.: 2803 Packaging group: III UN 'Model Regulation': UN 2803; GALLIUM; 8; III