

**UNICLEAN 501 PART 1**Version 2.0
SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

SECTION 1: Identification of the hazardous chemical and of the supplier**Product identifier**

Product name : UNICLEAN 501 PART 1

Product code : 1668018

Recommended use of the chemical and restrictions on useRecommended use : Plating agents and metal surface treating agents
Surface treatment

Restrictions on use : For industrial use only.

Manufacturer or supplier's details

Company : Atotech Deutschland GmbH

Address : Erasmusstrasse 20
Berlin 10553
Germany

Telephone : +4930349850

Company : Atotech (Malaysia) Sdn Bhd

Address : 1182 Lorong Perindustrian Bukit Minyak 22,
Taman Perindustrian Bukit Minyak
Simpang Ampat, Penang 14100
Malaysia

Telephone : +6045069800

Prepared by
Product Safety Department (PSD): product-safety@atotech.comInquiries
Questions about content of Safety Data Sheets: product-safety@atotech.comEmergency telephone number : CARECHEM24 INTERNATIONAL (MULTILINGUAL
SERVICE) +6531581074

SECTION 2: Hazards identification**Classification of the hazardous chemical**

Acute toxicity (Oral) : Category 4


Serious eye damage/eye
irritation : Category 1

**UNICLEAN 501 PART 1**Version 2.0
SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

Label elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H318 Causes serious eye damage.
Precautionary statements	:	<p>Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection/ face protection.</p> <p>Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.</p> <p>Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.</p>

Other hazards which do not result in classification

None known.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture	:	Mixture
Chemical nature	:	Aqueous solution

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Alcohols, C9-11-iso-, C10-rich, ethoxylated	78330-20-8	>= 40 -< 60

SECTION 4: First aid measures

General advice	:	Call a physician or poison control center immediately. Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air.

**UNICLEAN 501 PART 1**

Version 2.0

SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

- In case of skin contact : In case of contact, immediately flush skin with plenty of water. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.
- In case of eye contact : Consult a physician. In case of contact, immediately flush eyes with plenty of water for at least 30 minutes.
- If swallowed : Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed. Causes serious eye damage. Redness Blindness Nausea
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.
-

SECTION 5: Firefighting measures**Extinguishing media**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : No information available.

Physicochemical hazards arising from the chemical

- Hazardous combustion products : Carbon oxides

Special protective equipment and precautions for fire-fighters

- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Specific extinguishing methods : Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
-

SECTION 6: Accidental release measures

- Personal precautions, protective equipment and : Use personal protective equipment. Avoid contact with skin, eyes and clothing.
-

**UNICLEAN 501 PART 1**

Version 2.0

SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

emergency procedures	Evacuate personnel to safe areas. Prevent unauthorized access.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Avoid formation of aerosol. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local regulations.

SECTION 7: Handling and storage**Handling****Precautions for safe handling**

Advice on safe handling	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Handle in accordance with good industrial hygiene and safety practice.
-------------------------	---

Storage**Conditions for safe storage, including any incompatibilities**

Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature	: -5 - 40 °C

SECTION 8: Exposure controls and personal protection**Control parameters****||** Contains no substances with occupational exposure limit values.

Appropriate engineering controls	: Ensure adequate ventilation, especially in confined areas.
---	--

Individual protection measures, such as personal protective equipment

Eye/face protection	: Tightly fitting safety goggles Face-shield Ensure that eyewash stations and safety showers are close to the workstation location.
Skin protection	: Impervious clothing Choose body protection according to the amount and

**UNICLEAN 501 PART 1**

Version 2.0

SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

concentration of the dangerous substance at the work place.

Hand protection

- Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0,4 mm
Manufacturer : e.g. KCL
Recommendation : e.g. KCL Camatril@Velours 730

Remarks

- : The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. The information is based on our own tests, on data from literature and information from protective glove producers or is based on data obtained from similar substances.
- If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Respiratory protection

- : In case of insufficient ventilation, wear suitable respiratory equipment.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- No personal respiratory protective equipment normally required.

Hygiene measures

- : Avoid contact with skin, eyes and clothing.
When using do not eat or drink.

SECTION 9: Physical and chemical properties

- Appearance : liquid
Color : colorless
Odor : No information available.
Odor Threshold : No data available
pH : 5,0 - 8,0
Melting point/range : not determined
Boiling point/boiling range : not determined
Flash point : Not applicable

**UNICLEAN 501 PART 1**

Version 2.0

SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	ca. 23 hPa (20 °C)
Relative vapor density	:	No data available
Density	:	1,00 - 1,10 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	Not applicable

SECTION 10: Stability and reactivity

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
Incompatible materials	:	No data available
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on likely routes of exposure :
Eye contact

Acute toxicity

Harmful if swallowed.

**UNICLEAN 501 PART 1**

Version 2.0

SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

Product:

Acute oral toxicity : Acute toxicity estimate: 1.060 mg/kg
Method: Calculation method

Ingredients:**|| Alcohols, C9-11-iso-, C10-rich, ethoxylated:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage such as corneal damage and blindness.

Respiratory or skin sensitization**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

SECTION 12: Ecological information**Ecotoxicity**

No data available

**UNICLEAN 501 PART 1**

Version 2.0

SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**Additional ecological information : No data available

SECTION 13: Disposal information**Disposal methods**Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of in accordance with local regulations.Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC CodeNot applicable for product as supplied.

SECTION 15: Regulatory information**Safety, health, and environmental regulations specific for the hazardous chemical**

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

**UNICLEAN 501 PART 1**

Version 2.0

SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

Substances currently restricted by WEEE/RoHS (European Directives 2015/863/EU, 2012/19/EU and 2011/65/EU) or ELV (European Directive 2000/53/EC):

PBDE	PBB	CrVI	Hg	Pb	Cd
-	-	-	-	-	-
Phthalates:		DEHP	BBP	DBP	DIBP
		-	-	-	-

Please note: Current legislation restricting the use of certain substances applies to „homogeneous material“ in finished articles being supplied to the market. Substances deposited during surface finishing may have a composition (weight percent) higher than the weight percent of the substance in the operating solution from which the deposit is made. Atotech encourages its customers to implement systems to ensure their finished products comply with the regulations in force.

SECTION 16: Other information**Full text of other abbreviations**

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Date format : dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is

**UNICLEAN 501 PART 1**

Version 2.0

SDS_MY

SDS Number: 1668018

Revision Date: 22.03.2018

not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MY / EN