		SAFETY	DATA SHEET 🔞 analytika
			(EC) No 1907/2006 (REACH) as amended
			DI AN8006C
Creat	ion date	22. May 2019	
Revis	ion date		Version 1.0
SECT	ION 1: Identifica	tion of the substance/	mixture and of the company/undertaking
1.1.	Product identifie	er	Astasol AN8006C
	Substance / mixtu Number	Ire	mixture AN8006C
1.2.		ied uses of the substa	nce or mixture and uses advised against
	Mixture's intended		For professional use only. Laboratory chemical substances.
	The use des	-	
	SU 24	Scientific research	•
	PC 21	Laboratory chemic	als
	Mixture uses advis	sed against	not available
1.3.	Details of the su	pplier of the safety da	ata sheet
	Manufacturer		
	Name or trac	le name	Analytika, spol. s r.o.
	Address		Ke Klíčovu 816/2a, Praha 9 - Vysočany, 190 00 Czech Republic
	Identification	n number (CRN)	14891883
	VAT Reg No		CZ14891883
	Phone		+420 286 589 616
	E-mail		sales@analytika.net
	Web address		www.analytika.net
		on responsible for the	-
	Name		Analytika, spol. s r.o.
	E-mail		sales@analytika.net
1.4.	Emergency tele		
	National Health Se	ervice (NHS) 111 g information centre Scol	Hand NHS 24: 111
SECT	ION 2: Hazards id	dentification	
2.1.		the substance or mix	
			ance with Regulation (EC) No 1272/2008
	The mixture is cla	ssified as dangerous.	
	Met. Corr. 1, H290 Skin Corr. 1, H314		
	Full text of all clas	sifications and hazard st	atements is given in the section 16.
	Most serious ad	verse physico-chemica	al effects
	May be corrosive		

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage.



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2.2. Label elements





Signal word Danger

# Hazardous substances

Hydrochloric acid barium chloride

# Hazard statements

H290	May be corrosive to metals.	
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H314 Causes severe skin burns and eye damage.

# **Precautionary statements**

- P260 Do not breathe vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Immediately call a doctor.

# 2.3. Other hazards

P310

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

## Chemical characterization

Mixture of substances and additives specified below.

# Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 017-002-01 -X CAS: 7647-01-0 EC: 231-595-7 Registration number: 01-2119484862-27 -0168		2	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335 Specific concentration limit: Skin Corr. 1B, H314: $C \ge 25$ % Skin Irrit. 2, H315 Eye Irrit. 2, H319: 10 % $\le C$ < 25 % STOT SE 3, H335: $C \ge 10$ %	

	SAFETY DA according to Regulation (EC)		🕲 ଭାଇy	tika®
	amen	ded		
	Astasol A	N8006C		
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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 056-004-00 -8 CAS: 10361-37-2 EC: 233-788-1	barium chloride	0,015	Acute Tox. 3, H301 Acute Tox. 4, H332	

Full text of all classifications and hazard statements is given in the section 16.

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water/shower. Rinse cautiously with water for several minutes.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### If swallowed

DO NOT INDUCE VOMITING - there is danger of further damage to the gastrointestinal tract!!! Danger of esophageal and gastric perforation! RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.



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# 4.2. Most important symptoms and effects, both acute and delayed If inhaled Inhaling vapours can cause corrosion of the breathing system. If on skin

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Causes severe skin burns.

# If in eyes

Causes serious eye damage.

# If swallowed

Corrosion of the digestion system can occur.

# **4.3.** Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

# More information

Other information is not available.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

# Unsuitable extinguishing media

Water - full jet.

# 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

# 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

May be corrosive to metals. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

# 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

# 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents. Absorb spillage to prevent material damage.

# 6.4. Reference to other sections

See the Section 7, 8 and 13.



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# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Do not inhale aerosols. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

# 7.2. Conditions for safe storage, including any incompatibilities

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Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep only in original container.

Storage class

Material of package

8B - Non-combustible corrosive substances HDPE (2), High-density (linear) polyethylene (Plastics)



# 7.3. Specific end use(s)

not available

# SECTION 8: Exposure controls/personal protection

8.1. Control parameters none

# 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

## Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

## **Skin protection**

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### **Respiratory protection**

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

## Thermal hazard

Not available.

## Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.



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# SECTION 9: Physical and chemical properties

# **9.1.** Information on basic physical and chemical properties

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	Appearance	
	Physical state	liquid at 20°C
	color	data not available
	Odour	data not available
	Odour threshold	data not available
	рН	1 (undiluted)
	Melting point/freezing point	data not available
	Initial boiling point and boiling range	data not available
	Flash point	data not available
	Evaporation rate	data not available
	Flammability (solid, gas)	data not available
	Upper/lower flammability or explosive limits	
	flammability limits	data not available
	explosive limits	data not available
	Vapour pressure	data not available
	Vapour density	data not available
	Relative density	data not available
	Solubility(ies)	
	solubility in water	soluble
	solubility in fats	data not available
	Partition coefficient: n-octanol/water	data not available
	Auto-ignition temperature	data not available
	Decomposition temperature	data not available
	Viscosity	data not available
	Explosive properties	data not available
	Oxidising properties	data not available
	data not available	
9.2.	Other information	
	Density	data not available
	ignition temperature	data not available
	none	

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The mixture is non-flammable.

# **10.2. Chemical stability** The product is stable under normal conditions.

# 10.3. Possibility of hazardous reactions

The product is stable under normal conditions.



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## 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

# 10.5. Incompatible materials

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Protect against strong acids, bases and oxidizing agents. Thereby a dangerous exothermic reaction will be prevented.

# 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, heavy smoke and hydrogen chloride.

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

## Acute toxicity

Based on available data the classification criteria are not met.

Hydrochloric acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
	LD50	282 mg/l	96 hour	Gambusia affinis	
Oral	LD50	900 mg/kg		Rabbit	
Dermal	LD50	5010 mg/kg		Rabbit	
	EC50	0.492 mg/l	48 hour	Daphnia (Daphnia magna)	
	EC₅o	0.78 mg/l	72 hour	Pseudokirchneri ella subcapitata	

## Skin corrosion/irritation

Based on available data the classification criteria are not met.

## Serious eye damage/irritation

Based on available data the classification criteria are not met.

## Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

## Germ cell mutagenicity

Based on available data the classification criteria are not met.

## Carcinogenicity

Based on available data the classification criteria are not met.

## **Reproductive toxicity**

Based on available data the classification criteria are not met.

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# Toxicity for specific target organ - single exposure

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Based on available data the classification criteria are not met.

## Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

## **Aspiration hazard**

Based on available data the classification criteria are not met.

## **SECTION 12: Ecological information**

# 12.1. Toxicity

# Acute toxicity

Data for the mixture are not available.

- **12.2. Persistence and degradability** The substance is not biodegradable.
- 12.3. Bioaccumulative potential
  - Insignificant.

# 12.4. Mobility in soil

The product is soluble and mobile in water and soil. Contamination of water courses may occur in the event of rain.

# **12.5. Results of PBT and vPvB assessment** Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Data not available.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

## Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

## Waste type code

20 01 14 Acids \*

## Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances \*

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SECTION 14: Transport information		
14.1. UN number		
UN 1789		
14.2. UN proper shipping name		
HYDROCHLORIC ACID		
14.3. Transport hazard class(es)		
8 Corrosive substances		
<b>14.4. Packing group</b> II - substances presenting medium dang	Jor	
14.5. Environmental hazards	JEI	
not available		
14.6. Special precautions for user		
Reference in the Sections 4 to 8.		
14.7. Transport in bulk according to Anne	x II of Marpol and the	IBC Code
not available	•	
Additional information		
Hazard identification No.	80 (Kemler Cod	e)
UN number	1789	
Classification code	C1	
Safety signs	8	
	Â.	
Air transport - ICAO/IATA		
Packaging instructions passenger	851	
Cargo packaging instructions	855	
Marine transport - IMDG		
EmS (emergency plan)	F-A, S-B	
Marine Pollutant	No	

## **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

# 15.2. Chemical safety assessment

not available



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SECTI	ON 16: Other inf	ormation
	A list of standard	d risk phrases used in the safety data sheet
	H290	May be corrosive to metals.
	H301	Toxic if swallowed.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	Guidelines for sa	ife handling used in the safety data sheet
	P260	Do not breathe vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P310	Immediately call a doctor.
	<b>Other important</b>	information about human health protection
		not be - unless specifically approved by the manufacturer/importer - used for
	purposes other the health protection r	an as per the Section 1. The user is responsible for adherence to all related regulations.
	Key to abbreviat	ions and acronyms used in the safety data sheet
	ADR	European agreement concerning the international carriage of dangerous
		goods by road
	BCF	Bioconcentration Factor
	CAS	Chemical Abstracts Service
	CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
	DNEL	Derived no-effect level
	EC	Identification code for each substance listed in EINECS
	EC50	Concentration of a substance when it is affected 50% of the population
	EINECS	European Inventory of Existing Commercial Chemical Substances
	EmS	Emergency plan
	EU	European Union
	IATA	International Air Transport Association
	IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
	IC50	Concentration causing 50% blockade
	ICAO	International Civil Aviation Organization
	IMDG	International Maritime Dangerous Goods
	INCI	International Nomenclature of Cosmetic Ingredients
	ISO	International Organization for Standardization
	IUPAC	International Union of Pure and Applied Chemistry
	LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
	LD50	Lethal dose of a substance in which it can be expected death of 50% of the population



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LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure
Training quic	telines

## **Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### **Recommended restrictions of use**

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### More information

Classification procedure - calculation method.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.



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