

SAFETY DATA SHEET

According to GB/T 16483-2008/ GB 13690-2009

Print Date: 15.04.2014

Version 3

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product name:** SPHEROLYTE SULFAMIC ACID**English Product Name:** SPHEROLYTE SULFAMIC ACID**Product code:** 1760389**Identified uses**

Chemical plating of metals / Surface treatment

Uses advised against

No information available

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SECTION 2: HAZARDS IDENTIFICATION**Classification of the substance or mixture**

According to "General rule for classification and hazard communication of chemicals" (GB 13690-2009) and "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" published by UNO:

Skin corrosion/irritation	Category 2 - H315
Serious eye damage/eye irritation	Category 2A - H319
Chronic aquatic toxicity	Category 3 - H412

SECTION 2: HAZARDS IDENTIFICATION

Physical hazards:
None

Label elements

Hazard Pictograms



Signal word:

Warning

contains:

amidosulfonic acid

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

P260 - Do not breathe dust or mist

P273 - Avoid release to the environment

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

Other hazards

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Description:

Substance

Components	Weight %	CAS-No	INDEX No	EC-No.	REACH No.	GHS Classification
amidosulfonic acid	60-100	5329-14-6	016-026-00-0	226-218-8	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

Description of first aid measures

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General advice:

Consult a physician.

Inhalation:

Move to fresh air. If symptoms persist, call a physician.

Skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Consult a physician.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Ingestion:

Call a physician or Poison Control Center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Protection of first-aiders:

Use personal protective equipment.

Most important symptoms and effects, both acute and delayed

Irritation.

Indication of immediate medical attention and special treatment needed

None known

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons:

No information available

Special hazards arising from the substance or mixture:

In case of fire hazardous decomposition products may be produced such as. Sulphur oxides. Nitrogen oxides (NOx).

Precautions for fire-fighters

Wear self-contained breathing apparatus and protective suit. Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Flammability Limits in Air:

Lower:

Not applicable.

Upper:

Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes Prevent unauthorized access

Environmental precautions

Should not be released into the environment.

Methods and materials for containment and cleaning up

Avoid dust formation. Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local regulations. Clean up promptly by scoop or vacuum.

Prevent product from entering drains.

Reference to other sections

For personal protection see section 8. See also section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Observe label precautions. Use only in area provided with appropriate exhaust ventilation.

Do not breathe vapours/dust. Remove and wash contaminated clothing before re-use.

Handle in accordance with good industrial hygiene and safety practise..

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. See chapter: 10.

Storage Temperature.

Keep above

-5 °C

Keep below

40°C

Specific end uses

None known

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



National occupational exposure limits

Exposure controls

Appropriate engineering controls:

Apply technical measures to comply with the occupational exposure limits

Ensure adequate ventilation

Individual protection measures

Hygiene measures

Handle in accordance with good industrial hygiene and safety practise. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Wash face, hands and any exposed skin thoroughly after handling.

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment

Eye protection:

Tightly fitting safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin protection

Suitable safety glove for not intended contact with the product during use pursuant to section 1:

Product name: e.g. KCL Camatril®Velours 730

Material: Nitrile rubber

Thickness in mm: 0,4 +/- 0,05

Breakthrough time in min: 480

The applied gloves must be in accordance with the specifications of EC 89/686/EEC and the resulting standard EN 374.

Increased temperature, reduced thickness through elongation, abrasion and/or repeated use of gloves leads to a modified breakthrough-time.

Furthermore, breakthrough times may also vary if the product delivered is diluted and/or used in conjunction with other chemicals. Therefore, please contact a supplier of CE-approved gloves to find the suitable glove for your conditions and to ensure safe use it is recommended to replace used gloves frequently.

Thermal hazards:

None known

Environmental exposure controls:

Do not empty into drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	solid
Colour:	white
Odour:	No information available
Odour Threshold	No information available
Melting point (°C):	205
Boiling point (°C):	No information available
Flash point (°C):	Not applicable
Evaporation rate:	No information available
Flammability	No information available
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapour pressure:	No information available
Relative vapour density	3.35
Water solubility	soluble
Partition coefficient: n-octanol/water	0.10
Autoignition temperature (°C):	No information available
Decomposition temperature (°C):	209

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Viscosity:	No information available
Explosive properties:	Not applicable
oxidising properties	No information available
pH:	1.2 (1% in H ₂ O)
Relative density	2.12 - 2.14 g/cm ³

Other information

VOC Content(%):
Not applicable

Solubility in other solvents:
No information available

Bulk density
ca. 600kg/m³

Ignition temperature (°C):
No information available

Solidification point (°C):
Not required

SECTION 10: STABILITY AND REACTIVITY

Reactivity
None under normal processing

Chemical stability
Stable at normal conditions

Possibility of hazardous reactions
None under normal processing

Conditions to avoid:
Avoid dust formation. Exposure to moisture.

Incompatible materials
(see section "Possibility of hazardous reactions")

Hazardous decomposition products:
See chapter: 5.

SECTION 11: TOXICOLOGICAL INFORMATION**Information on toxicological effects**

Skin contact
Causes skin irritation

Eye contact

Causes serious eye irritation.

Inhalation

May cause irritation of respiratory tract

Ingestion

May be harmful if swallowed

Sensitisation

No information available

carcinogenic effects

No information available.

mutagenic effects

No information available

Reproductive toxicity

No information available.

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration hazard

No information available

Delayed and immediate effects and also chronic effects from short and long term exposure

None known

Other information on acute toxicity

Components	LD50/oral/rat	LC50/inhalation/rat	LD50/dermal/rabbit
amidosulfonic acid - 5329-14-6	1450 mg/kg	No information available	No information available

Other information

Irritation

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components	Freshwater Algae	Freshwater Fish Species
amidosulfonic acid - 5329-14-6	-	96 h LC50 (Pimephales promelas) = 70.3 mg/L

Components	Water Flea	Log Pow
amidosulfonic acid 5329-14-6	-	0.1

Persistence and degradability

No information available

Bioaccumulative potential:

Not determined

Mobility in soil

No known effect based on information supplied

Results of PBT and vPvB assessment

No information available

Other adverse effects

Do not allow contact with soil, surface or ground water

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues / unused products:

Dispose of in accordance with local regulations

Do not dispose of waste into sewer.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

SECTION 14: TRANSPORT INFORMATION

IMDG

UN-No (IMO/IMDG):	UN2967
Proper shipping name (IMDG):	Sulphamic acid
Ems no.:	F-A,S-B
Hazard Class (IMO/IMDG):	8
Packing group (IMO/IMDG):	III
Marine pollutant:	NP
Hazard Label (IMO/IMDG):	8

ADR/RID

UN-No:	2967
Proper shipping name:	SULPHAMIC ACID
Hazard Class:	8
Packing group:	III
Classification Code:	C2
Kemler Number (ADR):	80
ADR/RID-Labels	8

ICAO/IATA

UN-No (IATA):	UN2967
Proper shipping name (IATA):	Sulphamic acid
Hazard Class (IATA):	8
Packing group (IATA):	III
Hazard Label:	8

Environmentally hazardous

None known

Special precautions for users

None known

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Further Information:

German storage class (VCI) 8B

Water contaminating class (Germany) 1

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

PBDE	PBB	CrVI	Hg	Pb	Cd
-	-	-	-	-	-

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.

All of the components in this product are on or exempt from the following inventories:

US TSCA, CANADA DSL / NDSL, Europe (EINECS/ELINCS/NLP), Australia, Korea, China, Japan, Philippines.

International Inventory Legend

TSCA: US - Toxic Substance Control Act

DSL: Canada - Domestic Substance List

NDSL: Canada - Non-Domestic Substance List

IECSC: China - Inventory of Existing Chemical Substances China

EINECS: EU Inventory of Existing Commercial Chemical Substances

ELINCS: EU List of Notified Chemical Substances

ECL: Korea - Existing Chemicals List

AICS: Australia - Inventory of Chemical Substances

ENCS: Japan - Existing and New Chemical Substances

PICCS: Philippines - Inventory of Chemicals and Chemical Substances

SECTION 16: OTHER INFORMATION

This safety data sheet has been prepared according to following regulations:

General rule for classification and hazard communication of chemicals (GB 13690-2009)

Safety Data Sheet for Chemical Products Content and Order of Sections (GB/T 16483-2008)

Globally Harmonized System of Classification and Labelling of Chemicals (UNO GHS)

Full text of H-Statements referred to under sections 2 and 3:

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H412 - Harmful to aquatic life with long lasting effects

Revision Date: 15.04.2014

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 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