

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: IMAGELINK MICROCLEAN A

Product No.: 000001016051

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Cleaning agent

Uses advised against: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Eastman Park Micrographics
6300 Cedar Springs Rd
Dallas, Texas 75235
USA

Telephone: 585-781-4551

Contact Person: Robert Breslawski

E-mail: Robert.breslawski@epminc.com

Supplier

Eastman Park Micrographics
6300 Cedar Springs Rd
Dallas, Texas 75235
USA

Telephone: 585-781-4551

1.4 Emergency telephone number:

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Serious eye damage

Category 1

H318: Causes serious eye damage.

2.2 Label Elements

Contains:

EDTA-tetrasodium salt



Signal Words: Danger

Hazard Statement(s): H318: Causes serious eye damage.

Precautionary Statements

Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor/...

2.3 Other hazards Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
EDTA-tetrasodium salt	3 - <5%	64-02-8	200-573-9	01-2119486762-27	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
EDTA-tetrasodium salt	Acute Tox.: 4: H302 Eye Dam.: 1: H318	No data available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: CAUTION! First aid personnel must be aware of own risk during rescue!

4.1 Description of first aid measures

Inhalation: Move to fresh air.

Eye contact: Rinse immediately with plenty of water.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: See section 11 of the SDS for additional information on health hazards.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: See section 11 of the SDS for additional information on health hazards.

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Put on protective equipment before entering danger area.

6.2 Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

6.3 Methods and material for containment and cleaning up: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

6.4 Reference to other sections: For personal protection see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities: Store away from incompatible materials.

7.3 Specific end use(s): Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

None.

DNEL-Values

Critical component	type	Route of Exposure		Remarks	
Ammonium thiosulphate, Amonium thiosulphate	General population	Inhalation	104 mg/m3	Repeated dose toxicity	
	General population	Oral	13 mg/kg	Repeated dose toxicity	
	Workers	Inhalation	350 mg/m3	Repeated dose toxicity	
Sodium acetate	General population	Dermal	6 mg/kg	Repeated dose toxicity	
	General population	Oral	6 mg/kg	Repeated dose toxicity	
	Workers	Inhalation	1057.9 mg/m3	Repeated dose toxicity	
	General population	Dermal	36 mg/kg	Repeated dose toxicity	
	Workers	Inhalation	6347.36 mg/m3	Repeated dose toxicity	
	General population	Inhalation	521.73 mg/m3	Repeated dose toxicity	
	Workers	Dermal	72 mg/kg	Repeated dose toxicity	
	Workers	Dermal	12 mg/kg	Repeated dose toxicity	
	General population	Inhalation	3103.45 mg/m3	Repeated dose toxicity	
	General population	Oral	36 mg/kg	Repeated dose toxicity	
	Sodium sulphite	General population	Oral	11 mg/kg	Repeated dose toxicity
		General population	Inhalation	88 mg/m3	Repeated dose toxicity
Workers		Inhalation	298 mg/m3	Repeated dose toxicity	
EDTA-tetrasodium salt	General population	Oral	25 mg/kg	Repeated dose toxicity	
	Workers	Inhalation	2.5 mg/m3	Repeated dose toxicity	
	General population	Inhalation	1.5 mg/m3	Repeated dose toxicity	
	General population	Inhalation	1.5 mg/m3	Repeated dose toxicity	

	Workers	Inhalation	2.5 mg/m3	Repeated dose toxicity
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PNEC-Values

Critical component	Environmental compartment		Remarks
Ammonium thiosulphate, Amonium thiosulphate	Aquatic (marine water)	0.078 mg/l	
	Aquatic (freshwater)	0.78 mg/l	
	Sewage treatment plant	100.1 mg/l	
Sodium acetate	Sewage treatment plant	0.72 g/l	
	freshwater sediment	0.000402 mg/kg	
	Aquatic (marine water)	0.01 mg/l	
	soil	0.000402 mg/kg	
Sodium sulphite	Aquatic (freshwater)	0.1 mg/l	
	Marine sediments	0.00004 mg/kg	
	Aquatic (marine water)	0.13 mg/l	
	Aquatic (freshwater)	1.33 mg/l	
EDTA-tetrasodium salt	Sewage treatment plant	99.9 mg/l	
	soil	0.72 mg/kg	
	Aquatic (marine water)	0.22 mg/l	
	Aquatic (freshwater)	2.2 mg/l	
	Aquatic (intermit. releases)	1.2 mg/l	
	Sewage treatment plant	43 mg/l	

8.2 Exposure controls

Appropriate Engineering Controls: Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Follow training instructions when handling this material.

Eye/face protection: Safety goggles. EN 166.

Skin protection

Hand Protection: Protective gloves should be used if there is a risk of direct contact or splash.(EN374) Chemical resistant gloves required for prolonged or repeated contact. Butyl rubber. Glove thickness: > 0.70 mm Break-through time: > 480 min Risk of splashes: Nitrile rubber. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Other: Safety clothes : long sleeved clothing EN13688

Respiratory Protection: In case of inadequate ventilation use suitable respirator (EN14387). Seek advice from local supervisor.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Mild sour/acidic
Odor Threshold:	No data available.
pH:	4.7 (25 °C)
Freezing point:	< 0 °C
Boiling Point:	> 100 °C
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	23.00 hPa (20 °C)
Vapor density (air=1):	No data available.
Relative density:	1.2250 (20 °C)
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.

Explosive properties: No data available.
Oxidizing properties: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Material is stable under normal conditions.
10.2 Chemical Stability: Material is stable under normal conditions.
10.3 Possibility of hazardous reactions: Not known.
10.4 Conditions to avoid: Avoid heat or contamination.
10.5 Incompatible Materials: None known.
10.6 Hazardous Decomposition Products: By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.
Skin Contact: Moderately irritating to skin with prolonged exposure.
Eye contact: Eye contact is possible and should be avoided.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 43,414.63 mg/kg

Specified substance(s)

EDTA-tetrasodium salt LD 50 (Rat): 1,780 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

EDTA-tetrasodium salt LOAEL (Rat): 30 mg/m³

Repeated dose toxicity

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt LOAEL (Rat(Male), Inhalation, 1 - 5 d): 30 mg/m³
NOAEL (Rat(Female, Male), Oral, 103 Weeks): >= 500 mg/kg

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt in vivo (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Specified substance(s)

EDTA-tetrasodium salt in vivo (Rabbit, 24 - 72 hrs): Category 1

Respiratory or Skin

Sensitization:

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

In vivo

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt EC 50 (24 h): 610 mg/l (Static) experimental result

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt NOAEL (Danio rerio, 35 d): ≥ 25.7 mg/l (flow-through) interpreted

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

EDTA-tetrasodium salt No data available.

12.4 Mobility in Soil:

No data available.

Known or predicted distribution to environmental compartments

EDTA-tetrasodium salt No data available.

12.5 Results of PBT and vPvB assessment:

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

EDTA-tetrasodium salt No data available.

12.6 Other Adverse Effects:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Disposal methods: Wash before disposal. Dispose to controlled facilities.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information

ADR

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

RID

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

IMDG

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

IATA

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable.

SECTION 15: Regulatory information

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

EU Regulations**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none**Regulation (EC) No. 689/2008 Import and export of dangerous chemicals:** none**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:**
none**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:**
none**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none**Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:** none**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:**
none**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:**

Chemical name	CAS-No.	Concentration
EDTA-tetrasodium salt	64-02-8	1.0 - 10%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information**Revision Information:** Not relevant. Not relevant.**Key literature references and sources for data:** Safety Data Sheet from the supplier.
ECHA**Wording of the H-statements in section 2 and 3**H302 Harmful if swallowed.
H318 Causes serious eye damage.**Training information:** No data available.**Classification according to Regulation (EC) No 1272/2008 as amended.**

Eye Dam. 1, H318

Issue Date: 21.09.2016

SDS No.:

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.