

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 G3231c Dev

Product No.: 000001015868

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

Identified uses: Photographic developer concentrate

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.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Germ Cell Mutagenicity	Category 2	H341: Suspected of causing genetic defects.
Carcinogenicity	Category 2	H351: Suspected of causing cancer.

Environmental Hazards

Acute hazards to the aquatic environment

Category 1

H400: Very toxic to aquatic life.

2.2 Label Elements

Contains:

Hydroquinone



Signal Words:

Danger

Hazard Statement(s):

H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H341: Suspected of causing genetic defects.
H351: Suspected of causing cancer.
H400: Very toxic to aquatic life.

Precautionary Statements

Prevention:

P201: Obtain special instructions before use.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.

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
Hydroquinone	5 - <10%	123-31-9	204-617-8	01-2119524016-51-0002	10	#

2,2' - oxybisethanol; diethylene glycol	5 - <10%	111-46-6	203-872-2	01-2119457857-21-XXXX	No data available.	#
Potassium carbonate	1 - <5%	584-08-7	209-529-3	01-2119532646-36	No data available.	
Potassium bromide	1 - <5%	7758-02-3	231-830-3	No data available.	No data available.	
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	0.1 - <1%	13047-13-7	235-920-3	No data available.	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
Hydroquinone	Aquatic Acute: 1: H400 Skin Sens.: 1: H317 Eye Dam.: 1: H318 Acute Tox.: 4: H302 Muta.: 2: H341 Carc.: 2: H351	No data available.
2,2' -oxybisethanol; diethylene glycol	Acute Tox.: 4: H302	
Potassium carbonate	Eye Irrit.: 2: H319 Skin Irrit.: 2: H315 STOT SE: 3: H335	
Potassium bromide	Eye Irrit.: 2: H319	
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	Acute Tox.: 4: H302 Skin Sens.: 1: H317 Aquatic Chronic: 2: H411	

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: Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

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: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

6.2 Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

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:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities:

Store locked up.

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

Chemical name	type	Exposure Limit Values	Source
Hydroquinone	TWA	0.5 mg/m ³	Ireland. Occupational Exposure Limits (2011)
2,2' -oxybisethanol; diethylene glycol	TWA	23 ppm 100 mg/m ³	Ireland. Occupational Exposure Limits (2011)

Biological Limit Values

None.

DNEL-Values

Critical component	type	Route of Exposure		Remarks
Potassium sulphite	General population	Oral	14 mg/kg	Repeated dose toxicity
	General population	Inhalation	111 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	374 mg/m ³	Repeated dose toxicity
Potassium carbonate	General population	Inhalation	10 mg/m ³	Irritating to respiratory system.
	Workers	Dermal	16 mg/cm ²	Skin irritation/corrosion
	General population	Dermal	8 mg/cm ²	Skin irritation/corrosion
Potassium bromide	Workers	Inhalation	10 mg/m ³	Irritating to respiratory system.
	Workers	Inhalation	4.75 mg/m ³	Repeated dose toxicity
	Workers	Dermal	95 mg/kg	Repeated dose toxicity
EDTA-tetrasodium salt	Workers	Dermal	95 mg/kg	Repeated dose toxicity
	General population	Oral	25 mg/kg	Repeated dose toxicity
	Workers	Inhalation	2.5 mg/m ³	Repeated dose toxicity
Potassium hydroxide	General population	Inhalation	1.5 mg/m ³	Repeated dose toxicity
	General population	Inhalation	1.5 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	2.5 mg/m ³	Repeated dose toxicity
Potassium hydroxide	Workers	Inhalation	1 mg/m ³	Irritating to respiratory system.
	General population	Inhalation	1 mg/m ³	Irritating to respiratory system.

PNEC-Values

Critical component	Environmental compartment		Remarks
Potassium sulphite	Aquatic (freshwater)	1.67 mg/l	
	Aquatic (marine water)	0.17 mg/l	
	Sewage treatment plant	125.5 mg/l	
Potassium bromide	soil	3.2 mg/kg	
	Aquatic (freshwater)	0.52 mg/l	
	Sewage treatment plant	100 mg/l	
	Aquatic (marine water)	41 mg/l	
	Aquatic (intermit. releases)	109 mg/l	
EDTA-tetrasodium salt	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	
Etidronic acid	Predator	12 g/kg	
	Marine sediments	5.9 mg/kg	
	soil	96 mg/kg	
	Aquatic (marine water)	0.014 mg/l	
	Sewage treatment plant	20 mg/l	
	Aquatic (freshwater)	0.136 mg/l	
	freshwater sediment	59 mg/kg	

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:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.
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:	Yellow
Odor:	Odorless
Odor Threshold:	No data available.
pH:	12.1 (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:	1.32 (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.

9.2 Other information

VOC Content: EC Directive 2004/42: 150 g/l ~15 % (calculated)

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:** May cause an allergic skin reaction.
- Eye contact:** Eye contact is possible and should be avoided. Causes serious eye damage.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 2,826.41 mg/kg

Specified substance(s)

- Hydroquinone LD 50 (Rat): 367.3 mg/kg
- 2,2' -oxybisethanol;
diethylene glycol LD 50 (Rat): 12,565 mg/kg
- Potassium carbonate LD 50 (Rat): > 2,000 mg/kg
- Potassium bromide LD 50 (Rat): > 5,000 mg/kg

4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

Dermal

Product: ATEmix: 11,250 mg/kg

Specified substance(s)

Hydroquinone LD 50 (Rat): > 900 mg/kg

2,2' -oxybisethanol; diethylene glycol LD 50 (Rabbit): 13,300 mg/kg

Potassium carbonate LD 50 (Rabbit): > 2,000 mg/kg

Potassium bromide LD 50 (Rabbit): > 2,000 mg/kg

4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

Inhalation

Product: ATEmix67.65 mg/l Dusts, mists and fumes

Specified substance(s)

Hydroquinone No data available.

2,2' -oxybisethanol; diethylene glycol LC 50 (Rat, 4 h): > 4.6 mg/l

Potassium carbonate LC 50 (Rat, 4.5 h): > 4.96 mg/l

Potassium bromide No data available.

4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Hydroquinone
NOAEL (Rat(Female), Dermal, 13 Weeks): 109.6 mg/kg
NOAEL (Rat(Male), Dermal, 13 Weeks): 73.9 mg/kg
NOAEL (Rat(Female, Male), Dermal, 14 d): 3,840 mg/kg
NOAEL (Mouse(Female, Male), Dermal, 14 d): 4,800 mg/kg
NOAEL (Rat(Female, Male), Oral, 13 Weeks): 50 mg/kg
2,2' -oxybisethanol; diethylene glycol
NOAEL (Mouse(Female), Dermal, 10 d): 3,549 mg/kg
NOAEL (Rat(Female, Male), Oral, 225 d): 100 mg/kg
NOAEL (Rat(Female, Male), Oral, 4 - 7 Weeks): 936 mg/kg
NOAEL (Rat(Female, Male), Oral, 4 - 7 Weeks): 10,000 mg/kg

Potassium carbonate	LOAEL (Rat(Female, Male), Oral, 4 - 7 Weeks): 40,000 mg/kg NOAEL (Rat(Male), Oral, 130 Weeks): 2,667 mg/kg NOAEL (Rat(Female), Oral, 130 Weeks): 3,331 mg/kg NOAEL (Rat(Female, Male), Inhalation): 0.4 mg/l
Potassium bromide	LOAEL (Rat(Female), Oral, 90 - 118 d): 225 mg/kg
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Hydroquinone	in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study
2,2' -oxybisethanol; diethylene glycol	in vivo (Rabbit): Not irritating
Potassium carbonate	Irritating
Potassium bromide	No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	No data available.

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	in vivo (Rabbit, 24 hrs): Not irritating
Potassium carbonate	Irritating
Potassium bromide	No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	No data available.

Respiratory or Skin Sensitization:

Product: May cause an allergic skin reaction.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.
4-(Hydroxymethyl)-4- methyl-1- phenylpyrazolidin-3-one	No data available.

In vivo

Product: No data available.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.
4-(Hydroxymethyl)-4- methyl-1- phenylpyrazolidin-3-one	No data available.

Carcinogenicity

Product: Suspected of causing cancer.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.
4-(Hydroxymethyl)-4- methyl-1- phenylpyrazolidin-3-one	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.

4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Hydroquinone No data available.
2,2' -oxybisethanol; diethylene glycol No data available.
Potassium carbonate No data available.
Potassium bromide No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Hydroquinone No data available.
2,2' -oxybisethanol; diethylene glycol No data available.
Potassium carbonate No data available.
Potassium bromide No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Hydroquinone No data available.
2,2' -oxybisethanol; diethylene glycol No data available.
Potassium carbonate No data available.
Potassium bromide No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

SECTION 12: Ecological information

General information: Contains a substance which causes risk of hazardous effects to the environment.

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Hydroquinone	LC 50 (Oncorhynchus mykiss, 96 h): 0.638 mg/l (flow-through) Experimental result, Key study
2,2' -oxybisethanol; diethylene glycol	LC 50 (Pimephales promelas, 96 h): 75,200 mg/l (flow-through) experimental result
Potassium carbonate	LC 50 (Oncorhynchus mykiss, 96 h): 68 mg/l (flow-through) experimental result NOAEL (Oncorhynchus mykiss, 96 h): 33 mg/l (flow-through) experimental result
Potassium bromide	No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Hydroquinone	EC 50 (Daphnia magna, 48 h): 0.134 mg/l (semi-static) Experimental result, Key study
2,2' -oxybisethanol; diethylene glycol	EC 50 (24 h): > 10,000 mg/l (Static) experimental result
Potassium carbonate	EC 50 (48 h): 200 mg/l (Static) experimental result NOAEL (48 h): 120 mg/l (Static) experimental result
Potassium bromide	No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	LC 50 (Menidia peninsulae, 28 d): > 1,500 mg/l interpreted
Potassium carbonate	No data available.
Potassium bromide	No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.
4-(Hydroxymethyl)-4- methyl-1- phenylpyrazolidin-3-one	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.
4-(Hydroxymethyl)-4- methyl-1- phenylpyrazolidin-3-one	No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.
4-(Hydroxymethyl)-4- methyl-1- phenylpyrazolidin-3-one	No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Hydroquinone	No data available.
2,2' -oxybisethanol; diethylene glycol	No data available.
Potassium carbonate	No data available.
Potassium bromide	No data available.

4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Hydroquinone No data available.
2,2' -oxybisethanol; diethylene glycol No data available.
Potassium carbonate No data available.
Potassium bromide No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Hydroquinone No data available.
2,2' -oxybisethanol; diethylene glycol No data available.
Potassium carbonate No data available.
Potassium bromide No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one 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

Hydroquinone No data available.
2,2' -oxybisethanol; diethylene glycol No data available.
Potassium carbonate No data available.
Potassium bromide No data available.
4-(Hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one No data available.

12.6 Other Adverse Effects: Very toxic to aquatic organisms.

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: Discharge, treatment, or disposal may be subject to national, state, or local laws. Do not allow to enter drains, sewers or watercourses.

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

SECTION 14: Transport information**ADR**

14.1 UN Number:	UN 3082
14.2 UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Hydroquinone)
14.3 Transport Hazard Class(es)	
Class:	9
Label(s):	9
Hazard No. (ADR):	90
Tunnel restriction code:	(E)
14.4 Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1
14.5 Environmental Hazards:	Yes
14.6 Special precautions for user:	SPECIAL PROVISION 375

RID

14.1 UN Number:	UN 3082
14.2 UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Hydroquinone)
14.3 Transport Hazard Class(es)	
Class:	9
Label(s):	9
14.4 Packing Group:	III
14.5 Environmental Hazards:	Yes
14.6 Special precautions for user:	–

IMDG

14.1 UN Number:	UN 3082
14.2 UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Hydroquinone)
14.3 Transport Hazard Class(es)	
Class:	9
Label(s):	9
EmS No.:	F-A, S-F
14.4 Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1
14.5 Environmental Hazards:	Environmentally Hazardous
14.6 Special precautions for user:	CODE 2.10.2.7

IATA

14.1 UN Number:	UN 3082
-----------------	---------

14.2 Proper Shipping Name: Environmentally hazardous substance, liquid,
n.o.s.(Hydroquinone)

14.3 Transport Hazard Class(es):
Class: 9
Label(s): 9MI

14.4 Packing Group: III
Limited quantity 30.00KG
Excepted quantity E1

14.5 Environmental Hazards: Yes

14.6 Special precautions for user: SPECIAL PROVISION A197

Other information
Passenger and cargo aircraft: Allowed.

Cargo aircraft only: Allowed.

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	0.1 - 1.0%
Potassium hydroxide	1310-58-3	0.1 - 1.0%

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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Training information: No data available.

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

Eye Dam. 1, H318
Skin Sens. 1, H317
Muta. 2, H341
Carc. 2, H351
Aquatic Acute 1, H400

Issue Date: 20.09.2016

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.