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

1.1. Product identifier

Product form : Article
 Name : ACT-LR Jr. Cuvette
 Product code : JACT-LR

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
 Industrial/Professional use spec : Industrial
 For professional use only
 Function or use category : Laboratory chemicals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Accriva Diagnostics Inc
 6260 Sequence Dr
 CA 92121 San Diego
 T (800)5792255 - F 1-858-314-6701
customerservice@accriva.com - <http://www.accriva.com/>

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corr. 1B H314
 Eye Irrit. 2 H319
 Repr. 2 H361
 STOT RE 2 H373

Full text of H-statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Repr.Cat.3; R63
 Xn; R48/20
 Xi; R36/38

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]


Hazard pictograms (CLP) :



GHS05

GHS08

Signal word (CLP) : Danger
 Hazardous ingredients : 1H-imidazole
 Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
 H361 - Suspected of damaging fertility or the unborn child
 H373 - May cause damage to organs through prolonged or repeated exposure

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Precautionary statements (CLP) :

- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P260 - Do not breathe fume, mist, vapours
- P280 - Wear eye protection, protective clothing, protective gloves
- 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/shower
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P314 - Get medical advice/attention if you feel unwell
- P337+P313 - If eye irritation persists: Get medical advice/attention
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
silicon dioxide (Silica) substance with national workplace exposure limit(s) (BE, DE, GB, LV)	(CAS No) 7631-86-9 (EC no) 231-545-4	22-32	Not classified
sodium chloride substance with national workplace exposure limit(s) (LT, LV)	(CAS No) 7647-14-5 (EC no) 231-598-3	7-12	Not classified
1H-imidazole	(CAS No) 288-32-4 (EC no) 206-019-2	4-7	Xn; R22 C; R34 Repr.Cat.3; R63

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
silicon dioxide (Silica) substance with national workplace exposure limit(s) (BE, DE, GB, LV)	(CAS No) 7631-86-9 (EC no) 231-545-4	22-32	Not classified
sodium chloride substance with national workplace exposure limit(s) (LT, LV)	(CAS No) 7647-14-5 (EC no) 231-598-3	7-12	Not classified
1H-imidazole	(CAS No) 288-32-4 (EC no) 206-019-2	4-7	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Repr. 2, H361d

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician.


4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage. Suspected of damaging fertility or the unborn child. Causes damage to organs.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
 Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity : Thermal decomposition generates : Corrosive vapours.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
 Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
 Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe fume, mist, vapours. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fume, Vapours.
 Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash Skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.
 Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources.
 Incompatible products : Strong bases. Strong acids.
 Incompatible materials : Sources of ignition. Direct sunlight.


7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium chloride (7647-14-5)		
Latvia	OEL TWA (mg/m ³)	5 mg/m ³
Lithuania	IPRV (mg/m ³)	5 mg/m ³

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silicon dioxide (Silica) (7631-86-9)		
Belgium	Limit value (mg/m ³)	0,1 mg/m ³ (Silices amorphes : silice fondue SiO ₂ (poussières alvéolaires); Belgium; Time-weighted average exposure limit 8 h; Silices amorphes : fumées (fraction alvéolaire); 2 mg/m ³ ; Belgium; Time-weighted average exposure limit 8 h; Silices amorphes : terre de diatomées, non calcinées (fraction inhalable); 10 mg/m ³ ; Belgium; Time-weighted average exposure limit 8 h)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	4 mg/m ³
Latvia	OEL TWA (mg/m ³)	1 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	6 mg/m ³ Silica, amorphous inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Silica, amorphous respirable dust; 2.4 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.
 Personal protective equipment : Protective clothing. Protective goggles. Gloves.




Hand protection : Wear protective gloves.
 Eye protection : Chemical goggles or face shield.
 Skin and body protection : Wear suitable protective clothing.
 Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
 Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
 Appearance : Paste.
 Colour : Colourless.
 Odour : odourless.
 Odour threshold : No data available
 pH : No data available
 Relative evaporation rate (butylacetate=1) : No data available
 Melting point : No data available
 Freezing point : No data available
 Boiling point : No data available
 Flash point : No data available
 Auto-ignition temperature : No data available
 Decomposition temperature : No data available
 Flammability (solid, gas) : Non flammable
 Vapour pressure : No data available
 Relative vapour density at 20 °C : No data available
 Relative density : No data available
 Solubility : Soluble in water.
 Log Pow : No data available
 Log Kow : No data available
 Viscosity, kinematic : No data available
 Viscosity, dynamic : No data available
 Explosive properties : Product is not explosive.
 Oxidising properties : No data available

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Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

1H-imidazole (288-32-4)	
LD50 oral rat	970 mg/kg (Rat)
ATE CLP (oral)	970,000 mg/kg bodyweight
sodium chloride (7647-14-5)	
LD50 oral rat	3000 mg/kg (Rat; Experimental value; 3550 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)
ATE CLP (oral)	3000,000 mg/kg bodyweight
silicon dioxide (Silica) (7631-86-9)	
LD50 oral rat	> 10000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified


Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

1H-imidazole (288-32-4)	
EC50 Daphnia 1	341,5 mg/l (EC50; 48 h)

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1H-imidazole (288-32-4)	
Threshold limit algae 2	130 mg/l (EC50; 72 h)
sodium chloride (7647-14-5)	
LC50 fish 2	5840 mg/l (LC50; ASTM; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
Threshold limit algae 2	2430 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 120 h; Algae; Static system; Fresh water; Experimental value)
silicon dioxide (Silica) (7631-86-9)	
LC50 fish 1	> 10000 mg/l (LC50; 96 h)
EC50 Daphnia 1	> 10000 mg/l (EC50; 24 h)

12.2. Persistence and degradability

ACT-LR Jr. Cuvette	
Persistence and degradability	Not established.
1H-imidazole (288-32-4)	
Persistence and degradability	Readily biodegradable in water.
sodium chloride (7647-14-5)	
Persistence and degradability	Biodegradability: Not applicable. No (test) data available on mobility of the substance.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
silicon dioxide (Silica) (7631-86-9)	
Persistence and degradability	Biodegradability: Not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

ACT-LR Jr. Cuvette	
Bioaccumulative potential	Not established.
1H-imidazole (288-32-4)	
BCF fish 1	1 (BCF)
Log Pow	-0,02
Bioaccumulative potential	Bioaccumulation: Not applicable.
sodium chloride (7647-14-5)	
Log Pow	-3,0 (Calculated)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
silicon dioxide (Silica) (7631-86-9)	
Bioaccumulative potential	Not bioaccumulative. Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available


12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 16 05 06* - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1760

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE LIQUID, N.O.S.

Transport document description (ADR) : UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS 1H-imidazole(288-32-4)), 8, II, (E)

14.3. Transport hazard class(es)

Class (ADR) : 8

Danger labels (ADR) : 8



14.4. Packing group

Packing group (ADR) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Classification code (ADR) : C9

Orange plates :



Special provisions (ADR) : 274

Transport category (ADR) : 2

Tunnel restriction code (ADR) : E

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

EAC code : 2X

APP code : B

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance on the REACH candidate list


15.1.2. National regulations

Water hazard class (WGK) : 3 - severe hazard to waters

WGK remark : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 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.

Other information : None.

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H361d	Suspected of damaging the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
R22	Harmful if swallowed
R34	Causes burns
R36/38	Irritating to eyes and skin
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R63	Possible risk of harm to the unborn child
C	Corrosive
Xi	Irritant
Xn	Harmful

SDS EU_NSC

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.