

Section 1: Identification

Product identifier

Product name: ET 3,2% NC Solution

Product name: HL0474

Details Manufacturer / supplier:

ELITechGroup B.V.
Van Rensselaerweg 4
6956 AV Spankeren
The Netherlands

Phone: +31 313 430 500

Email: service.ecsnl@elitechgroup.com

Website: www.elitechgroup.com

Information department: QA/RA department

Emergency Telephone number: Contact your distributor or poison control center in your country

Recommended use

Additive for test-tubes, laboratory chemicals

Restrictions on use

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Section 2: Hazard(s) Identification

Hazard classification

Classification according 1272/2008/EG

Acute toxicity oral	Category 4	Harmful if swallowed
Skin irritation	Category 2	Causes skin irritation
Eye irritation	Category 2	Causes serious eye irritation
Chron. aquatic toxicity	Category 4	May cause long lasting harmful effects to aquatic life

H302: Harmful if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation

H413: May cause long lasting harmful effects to aquatic life

Classification according 67/548/EG and 1999/45/EG respectively

Xn, Harmful

R22: Harmful if swallowed

Xi, Irritant

R36: Irritant to eyes

R38: Irritant to skin

Label elements

Labeling according 1272/2008/EG



Signal word: Warning

Hazard Statements: H302: Harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation
H413: May cause long lasting harmful effects to aquatic life

Precautionary Statements:

Prevention: P261: Avoid breathing fume/mist/vapours/aerosole
P264: Wash hands an face thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection

Reaction: P312: Call a Poison Centre or physician if you feel unwell
P303+P361+P352: If on skin: remove immediately all contaminated clothing; wash with soap and water
P305+P351+P338: If in eyes: rinse continuously with water for several minutes, remove contact lenses if present and easy to do

P362: Take off immediately clothing and wash before reuse

Storage: P405: Store locked up

Disposal: P501: Dispose contents and container according to local directives and regulations respectively

Labeling according VO 1999/45/EG

Pictogram:

Xi, Xn



R-Phrases: 22 Harmful if swallowed
36 Irritant to eyes
38 Irritant to skin

S-Phrases: 13 Keep away from food, drink and animal feeding stuff
24/25 Avoid contact with skin and eyes
26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice
36/37 Wear suitable protective clothing and gloves
39 Wear suitable eye/face-protection
45 In case of accident or if you feel unwell seek medical advice (show label/MSDS where possible)

Additional statement: Chemicals are in principle source of particular hazards and should be handled with particular precaution and by trained personnel only.

Section 3: Composition / Information on Ingredients

Substances

Not applicable

Mixtures

Chemical Characterization: aqueous solution of organic substances and salts

Hazardous components:

Name	CAS-Nr.	EG-Nr.	Mass%	Classification
Citric Acid Monohydrate	5949-29-1	201-069-1	<5,0 %	Skin irritation 2; H315 Serious eye damage 1; H318 STOT SE 3; H335
Trisodiumcitrate Dihydrate	6132-04-3	200-675-3	<1,0%	Not applicable
CELNON-PL650	9002-93-1	-	Traces	Acute toxicity, oral 4; H302 Serious eye irritation 2; H319 Chron. aquat. tox. 2; H411

Note: Main constituent of CELNON-PL650 (>60%) is put at the Candidate List of Substances of Very High Concern (SVHC-List) according to the European REACH-Regulation.

Section 4: First-Aid Measures

Description of first aid measures

General advice:	Show MSDS to doctor/physician! Take off contaminated clothes immediately. Avoid inducing or enforcing vomiting. First aider: pay attention on self-protection!
In case of eye contact:	Immediately rinse cautiously with plenty of water with opened eyelid for at least 10 minutes; check presence of contact lenses and remove if easy to do; if eye irritation persists, get medical advice/attention and seek ophthalmologist respectively.
In case of skin contact:	Immediately remove/take off all contaminated clothing and shoes and wash/clean before reuse; wash thoroughly with soap and water and rinse with plenty of water; apply skin care cream for protection. If skin irritation persists or occurs or you feel unwell seek medical advice/attention.
If inhaled:	N/A
If swallowed:	Immediately rinse mouth thoroughly with water for several times. If conscious drink lot of water; if sanitary disorders persist seek medical advice.

Most important symptoms and effects

The most important known symptoms and effects are described in the labeling (see section 2) and in section 11 respectively

Recommendations for immediate medical care and special treatment

No data available

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:	carbon dioxide, dry chemical powder, water spray or alcohol-persistent foam
Unsuitable extinguishing media:	No restrictions known

Special hazards arising from the mixture

Particular fire-gases: Carbon Monoxide

Advice for firefighters

Wear self-contained breathing apparatus and protective equipment.

Further information

No data available

Section 6: Accidental Release Measures

Precautions

Personal precautions: Ensure adequate and effective ventilation if spilled; wear protective clothing and gloves, use eye protection; do not breathe fumes, decomposition- and fire-gases.

Environmental precautions: Avoid spilled material and forge water to permeate into sewage system or water bodies.

Methods and materials used for containment and cleaning up

Rinse thoroughly with water

Reference to other sections

For disposal see section 13

Section 7: Handling and Storage

Handling

Precautions for safe handling:

Avoid contact with skin, eyes. Avoid inhalation of vapor and mist. For precaution see section 2.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed in a cool, dry, dark and well ventilated place strictly separated from incompatible substances, foodstuffs, beverages, stimulants and animal feed.

Recommended storage temperature: 2 – 8°C

Specific end use(s):

Apart from the uses mentioned in section 1 no other specific uses are stipulated

Section 8: Exposure Controls / Personal Protection

Control parameters

Components with workplace control parameters: none

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Do not eat drink or smoke in areas where this product is used, handled, stored or processed. Wash hands and face thoroughly with soap and water and rinse with plenty of water before breaks and at the end of a working day.

Personal protective equipment

Eye/face protection: wear protective goggles with lateral protection according to EN 166.

Skin protection: wear protective gloves; check gloves for defects before use; take off gloves after use without contact of outer surface; protective gloves must comply with EN 374 and 89/696/EG;

Material: Nitrile rubber

Thickness: >0.11 mm

Break through time: >480 min

Wash hands and face thoroughly with soap and water and rinse with plenty of water at the end of a working day and apply skin protecting cream.

Body protection: wear adequate protective clothing or protective suit.

Respiratory protection: if fumes, vapors or haze arise use filter type ABEK according EN14387. If the respirator is the sole means of protection use a full-face supplied air respirator.

Control of environmental exposure:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Form: Aqueous solution

Color: colorless, slight yellowish

Odor: odorless

Odor threshold: No data available

pH-value: No data available

Melting point/Melting range: No data available

Boiling point/Boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gaseous):	No data available
Upper / lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Water solubility:	Soluble
Partition coefficient n-Octanol/Water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

Other safety information

No data available

Section 10: Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions

Other

Possibility of hazardous reactions:	No data available
Conditions to avoid:	No data available
Classes of incompatible materials:	Nitrates, bases, strong acids and oxidizing and reducing agents
Hazardous decomposition products:	Other decomposition products: No data available. In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological information

Acute toxicity

CELNON-PL650	LD50 rat oral: 1800 mg/kg
	LD50 rabbit dermal: 8000 mg/kg
Citric Acid Monohydrate	LD50 rat oral: 3000 mg/kg
	LD50 rat dermal: >2000 mg/kg
	LD50 rat intraperitoneal: 375 mg/kg
Trisodiumcitrat Dihydrate	LD50 rat oral: >8000 mg/kg

Skin corrosion / irritation:	Citric Acid	Rabbit:	Mild skin irritation
Serious eye damage / eye irritation:	Citric Acid:	Rabbit:	Irritating to eyes
Respiratory or skin sensitisation:		No data available	
Germ cell mutagenicity:		No data available	
Carcinogenicity:		No data available	
Reproductive toxicity:		No data available	
Spec. target organ toxicity – single exposure:		No data available	
Spec. target organ toxicity – repeated exposure:		No data available	
Aspiration hazard:		No data available	
Additional Information:	RTECS:	No data available	

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information (non-mandatory)

Toxicity

Data related to: CELNON PL650:

Toxicity to fish	LC ₅₀ Pimephales promelas	8.9 mg/l / 96 h
	LC ₅₀ Lepomis macrochirus	0.3 mg/l / 96 h
Toxicity to daphnia	EC ₅₀ Daphnia	26 mg/l / 48 h
	LC ₅₀ Daphnia magna	11.2 mg/l / 48 h

Citric Acid Monohydrate:

Toxicity to fish	LC ₅₀ Leuciscus idus melanotus	440 mg/l / 96 h
Toxicity to daphnia	EC ₅₀ Daphnia magna	120 mg/l / 72 h
	EC ₅ Entosiphon sulcatum	485 mg/l / 72h
Toxicity to bacteria	EC ₅ Pseudomonas putida	>10 000 mg/l / 16h
Toxicity to algae	IC ₅ Microcystis aeruginosa	80 mg/l / 192 h

Trisodiumcitrate Dihydrate:

Toxicity to fish	LC ₅₀ Poecili reticulata	>18.000 mg/l / 96 h
Toxicity to daphnia	EC ₅₀ Daphnia magna	>5.600 mg/l / 48 h

Persistence and degradability

CELNON-PL650: 36% / 28 d - not readily biodegradable

COD: 2.19 mg / g

Citric Acid: 98% / 2 d – readily biodegradable

COD: 685 mg / g

BOD: 481 mg / g

ThOD: 686 mg / g

Trisodiumcitrate-Dihydrate: ThOD: 417 mg / g

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

CELNON-PL650: Toxic to aquatic life with long lasting effects

Section 13: Disposal Considerations (non-mandatory)

Waste treatment methods

Product

Must be introduced into an appropriate waste disposal facility regarding waste legislation; in case of doubt consign it to an authorized collecting agent and/or waste disposal contactor for special waste; product must not be disposed together with consumer waste; product and its container are to be treated as hazardous waste.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information (non-mandatory)

UN number:

ADR/RID: -

IMDG: -

IATA: -

UN proper shipping name:

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class

ADR/RID: -

IMDG: -

IATA: -

Packing group number

