According to Regulation (EC) No. 1907/2006 and 2015/830



Revision date: 22/11/2016 Version 16.1

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

1.1 Product identifier

Catalogue No 902

Product name Acidimetric solution N/49

REACH Registration

Number

This product is a mixture. REACH Registration Number see section 3.

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

Identified uses Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Société: Laboratoires Dujardin-Salleron 37210 Noizay France Tél. +33 (0)2 47 25 58 25

courriel: info@dujardin-salleron.com - site: www.dujardin-salleron.com

1.4 Emergency telephone number France: INRS: +33 (0)1 45 42 59 59

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (CE) N° 1272/2008)

This mixture is not classified as dangerous according to European Union Legislation

2.2 Label elements

Labeling (Regulation (CE) N° 1272/2008)

Not a dangerous mixture according to GHS.

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature: Aqueous solution / mixture

3.1 Substance: not applicable

3.2 Mixture:

Components not classified as hazardous as a consequence of the substance concentration (Regulation (CE) N° 1272/2008)

Chemical name (Concentration)

Sodium hydroxide concentration (< 0,1%)

CAS N°	EC N°	REACH N°	Classification
1310-73-2	215-185-5	01-2119457892-27-XXXX	Skin corrosion, Category 1A, H314 Corrosive to metals, Category 1, H290

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

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Immediately remove contaminated clothing. After eye contact: rinse out with plenty of water with the eyelid wide open. Call in ophthalmologist if

necessary.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell

4.2 Most important symptoms and effects, both acute and delayed

Irritation of skin, eye, respiratory tract and gastrointestinal tract.

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4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, foam, dry powder or carbon dioxide (CO₂),

Unsuitable extinguishing media

For this mixture, no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breath vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Do not empty into drains.

6.3 Method and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent and neutralizing material (e.g. Trivorex ® (PREVOR). Dispose of properly. Clean up affected area.

6.4 Additional information

Clear spills immediately.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Observe label precautions.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with mixture.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : no aluminium, tin, or zinc containers.

Storage conditions:

Storage temperature +15 - +25°C

Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

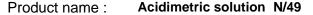
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls / personal protection

8.1 Control parameters

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Components with occupational exposure limit values Sodium hydroxide (1310-73-2) Threshold limit Base Value Comment values Time Weighted Limit value for Average occupational exposure 2 mg/m³ Indicative limit values Threshold Limit (VLEP France) Value **Derived No Effect Level (DNEL)** Worker DNEL, long term Local effects 1 mg/m³ inhalation Consumer DNEL, long term Local effects inhalation 1 mg/m^3

Recommended control procedures

Measuring methods of workplace atmosphere must meet DIN EN 482 and DIN EN 689 standards.

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Eye/face protection

Tightly fitting safety glasses

Hand protection

Splash contact:

full contact: Glove material: Nitrile rubber

Glove thickness: 0.11 mm

Break through time: > 480 min

Glove material: Nitrile rubber

Glove thickness: 0.11 mm
Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Other protective equipment

Wear alkali resistant protective clothing, provided with a CE marking.

Respiratory protection

Required when vapors/aerosols are generated.

Recommended filter type: P 2.

The company has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented

Environmental exposure controls

Do not empty into drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form liquid.

Color colorless.

Odor odorless.

Odor Threshold not applicable.

pH about 12.3 at 20 °C

Melting point no information available.

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Boiling point/boiling range no information available.

Flash point no information available.

Evaporation rate no information available.

Flammability (solid, gas) not applicable

Lower explosion limit no information available.
Upper explosion limit no information available.
Vapor pressure no information available.
Relative vapor density no information available.
Relative density no information available.

Water solubility at 20°C soluble

Partition coefficient: n- octanol/water no information available.

Auto-ignition temperature no information available.

Decomposition temperature no information available.

Viscosity, dynamic no information available.

Explosive properties not classified as explosive.

Oxidizing properties none

9.2 Other data

Bulk density no information available.

Refraction index no information available.

Dissociation constant no information available.

Surface tension no information available.

Henry constant no information available.

Corrosion may be corrosive to metals.

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable for a year under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Violent reactions possible with:

Nitriles, ammonium compounds, cyanides, magnesium, organic nitro compounds, organic combustible substances, phenols, powdered alkaline earth metals, acids.

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

Aluminum, zinc, tin, brass, acids

10.6 Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO2), sodium oxides.

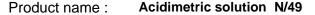
SECTION 11. Toxicological information

11.1 Information on toxicological effects

Mixture

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Acute oral toxicityNo information available.Acute inhalation toxicityNo information available.Acute dermal toxicityNo information available.

Skin irritation

Possible damages: slight irritation

Eye irritation

Possible damages: slight irritation

Sensitization
No information available.
Specific target organ toxicity - single exposure
No information available.
Specific target organ toxicity - repeated exposure
No information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicityNo information available.CarcinogenicityNo information available.Reproductive toxicityNo information available.TeratogenicityNo information available.Aspiration hazardsNo information available.

11.2 Further information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

Components

sodium hydroxide

Acute oral toxicity

LD50 rat: 1350 mg/kg (IUCLID)

Skin irritation

Rabbit: Result: Causes burns. (RTECS)

Eye irritation

Rabbit: Result: Causes burns. (RTECS)

Germ cell mutagenicity Genotoxicity in vitro

Mutagenicity (mammal cell test): micronucleus. Result: negative (Lit.)

Ames test

Result: negative (IUCLID)

Teratogenicity

Did not show teratogenic effects in animal experiments. (Lit.)

SECTION 12. Ecological information

Mixture

12.1 Ecotoxicity

Acute (short-term) fish toxicity

LC50 - EC50 - species - exposure time No data available.

Chronic (long-term) fish toxicity

LC50 - EC50 - species - exposure time No data available.

Acute (short-term) daphnia toxicity

LC50 - EC50 - species - exposure time No data available.

Chronic (long-term) daphnia toxicity

LC50 - EC50 - species - exposure time No data available.

Acute (short-term) algae toxicity

LC50 - EC50 - species - exposure time No data available.

Chronic (long-term) algae toxicity

LC50 - EC50 - species - exposure time

No data available.

12.2 Persistence and degradability – Biodegradability

No data available.

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12.3 Bioaccumulative potentialNo data available.12.4 Mobility in soilNo data available.12.5 Results of PBT assessmentNo data available.

12.6 Other adverse effects

Discharge into the environment must be avoided.

Components

Sodium hydroxide

Toxicity to fish

LC50 Oncorhynchus mykiss (rainbow trout): 45.4 mg/l; 96 h (50% solution) (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 76 mg/l; 24 h (50% solution) (External SDS)

Toxicity to bacteria

CE50 Photobacterium phosphoreum: 22 mg/l; 15 min (External SDS).

Biodegradability

The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulation

Bioaccumulation is unlikely.

SECTION 13. Disposal considerations

Waste treatment methods

Waste must be disposed of in accordance with the Directive on waste 2008/98/EC and with local and national regulations. Leave chemicals in original containers. No mixing with other waste. Treat uncleaned containers like the product itself.

SECTION 14. Transport information

Land transport (ADR / RID)

The mixture is not subject to regulations for road transport.

14.1 - 14.6

Air transport (IATA) 14.1 - 14.6

Sea transport (IMDG)

14.1 - 14.6 The mixture is not subject to regulations for sea transport.

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

Not relevant

SECTION 15. Regulatory information

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

UE regulations

Aquatic Class risk (WGK) WGK1 (slightly hazardous for water).

Occupational restrictions Take note of Directive 94/33/EC on the protection of young people

at work and Directive 92/85/EEC on the safety and health at work

of pregnant women

Substances of very high concern

(SVHC)

This product does not contain substances of very high concern above the respective regulatory limit (> 0.1%(w/w) Regulation

The mixture is not subject to regulations for air transport.

(EC) N° 1907/2006 (REACH), Article 57

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of the H-Statements mentioned in sections 2-3

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. If does not represent a guarantee of any properties of the product.