

NUOVA LAC S.r.l.

CB 975

Safety Data Sheet dated 24/9/2018, version 2

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



1.1. Product identifier

Mixture identification:

Trade name: PLASMAFLUID CB 975

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

Recommended use:

Fluid for hydraulic system

1.3. Details of the supplier of the safety data sheet

Company:

NUOVA LAC S.r.l.

Via dell'Industria, 2

47822 Santarcangelo di Romagna (RN) ITALY

Phone +39 0541 621600

Competent person responsible for the safety data sheet:

info@nuovalac.it

1.4. Emergency telephone number

NUOVA LAC S.r.l. Phone +39 0541 621600 (office hours)

Poison Control Center of Milan - Niguarda Hospital - Cà Granda MILAN +39 02 66101029

Poison Control Center of Florence - Careggi Hospital - Florence +39 055 7947819

Poison Control Center Rome - Gemelli Polyclinic Hospital - Rome +39 06 3054343

Regional Medicines and Poisons Information Centre NI Pharmacy Department Royal Hospital Suite Grosvenor Road

Belfast +44 28 90 63 2032

National Poisons Information Service (Birmingham Unit) City Hospital Dudley Rd Birmingham

+44 121 507 4123

National Poisons Information Service Edinburgh Scottish Poisons Information Bureau Royal

Infirmery 51 Little France

Crescent Edinburgh +44 131 242 1383

National Poisons Information Service (Newcastle Unit) Wolfson Unit Claremont Place Newcastle

Upon Tyne +44 191 2606182/+44 191 2606180

National Poisons Information Service (Cardiff) University Hospital Llandough Penlan Road Penarth

+44 292 071 55 54

List of World poison centres available at:

http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008



(CLP):

Warning, Skin Irrit. 2, Causes skin irritation.



Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



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Danger

Hazard statements:
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements:
P264 Wash hands thoroughly after handling the product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Special Provisions:
None

Contains
Isotridecanol, ethoxylated
2,2'-iminodiethanol; diethanolamine

Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards
vPvB Substances: None - PBT Substances: None

Other Hazards:
No other hazards



SECTION 3: Composition/information on ingredients

3.1. Substances

Not Available

3.2. Mixtures

Chemical composition: Mixture based of glycol in aqueous solution

Hazardous components within the meaning of the CLP regulation and related classification:

5% - 15% Isotridecanol, ethoxylated

CAS: 69011-36-5, EC: 931-138-8

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.3/1 Eye Dam. 1 H318

< 5% 2,2'-iminodiethanol

REACH No.: 01-2119488930-28, Index number: 603-071-00-1, CAS: 111-42-2, EC: 203-868-0

⚠ 3.1/4/Oral Acute Tox. 4 H302

4.1/C3 Aquatic Chronic 3 H412

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.9/2 STOT RE 2 H373

< 1% sodium hydroxide

REACH No: 01-21194557892-27 CAS: 1310-73-2, EC: 215-185-5

⚠ 3.2/1A Skin Corr. 1A H314

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting.

OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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- Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
Wash with plenty of water.
- 6.4. Reference to other sections
See also section 8 and 13
-

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SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
Storage at a temperature between 5°C and 35°C
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
- 7.3. Specific end use(s)
None in particular
-

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2
ACGIH - TWA(8h): 1 mg/m³ - Notes: (IFV), Skin, A3 - Liver and kidney dam
sodium hydroxide; caustic soda - CAS: 1310-73-2
ACGIH - STEL: Ceiling 2 mg/m³ - Notes: URT, eye, and skin irr
- DNEL Exposure Limit Values
Not Available
- PNEC Exposure Limit Values
Not Available
- 8.2. Exposure controls
- Eye protection:
Use close fitting safety goggles, don't use eye lens.
- Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
- Protection for hands:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
- Respiratory protection:
Not needed for normal use.
- Thermal Hazards:
None
- Environmental exposure controls:
None
- Appropriate engineering controls:
None

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



Properties	Value	Method:	Notes:
Appearance and colour:	limpid liquid green/blue	--	--
Odour:	charatteristic	--	--
Odour threshold:	Not Available	--	--
pH:	(aqueous solution 5%) 10 approx		
Melting point / freezing point:	Not Available	--	--
Initial boiling point and boiling range:	100°C	--	--
Flash point:	> 100°C	--	--
Evaporation rate:	Not Available	--	--
Solid/gas flammability:	Not Available	--	--
Upper/lower flammability or explosive limits:	Not Available	--	--
Vapour pressure:	Not Available	--	--
Vapour density:	Not Available	--	--
Relative density:	1,05 Kg/m3 approx	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	Not Available	--	--
Partition coefficient (n- octanol/ water):	Not Available	--	--
Auto-ignition temperature:	Not Available	--	--
Decomposition temperature:	Not Available	--	--
Viscosity:	Not Available	--	--
Explosive properties:	Not Available	--	--
Oxidizing properties:	Not Available	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not Available	--	--
Fat Solubility:	Not Available	--	--
Conductivity:	Not Available	--	--
Substance Groups relevant properties	Not Available	--	--

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
None
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
None in particular.
- 10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

Not Available

Toxicological information of the main substances found in the product:

Isotridecanol, ethoxylated - CAS: 69011-36-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 300-2000 mg/kg - Source: Test values / own bibliographic values

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: Test values / own bibliographic values

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1600 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 0.2 mg/l - Duration: 8h

sodium hydroxide; caustic soda - CAS: 1310-73-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1350 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 1350 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;

- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
Isotridecanol, ethoxylated - CAS: 69011-36-5

a) Aquatic acute toxicity:

Endpoint: CL50 - Species: Cyprinus carpio > 1-10 mg/l - Duration h: 96

Endpoint: CE50 - Species: Daphnia > 1-10 mg/l - Duration h: 48

Endpoint: CE50 - Species: Desmodesmus subspicatus > 1-10 mg/l - Duration h: 72

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

a) Aquatic acute toxicity:

Endpoint: CL50 - Species: Pimephales promelas = 1460 mg/l - Duration h: 96

Endpoint: CE50 - Species: Daphnia magna = 55 mg/l - Duration h: 48

Endpoint: CE50 - Species: Pseudokirchneriella subcapitata = 2.2 mg/l - Duration h: 96

12.2. Persistence and degradability

None

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Biodegradability: Readily biodegradable - Test: Not Available –

Duration: Not Available - %: Not Available - Notes: Not Available

12.3. Bioaccumulative potential

Not Available

12.4. Mobility in soil

Not Available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not Available

14.3. Transport hazard class(es)

Not Available

14.4. Packing group

Not Available

14.5. Environmental hazards

Not Available

14.6. Special precautions for user

Not Available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not Available

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances).
Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC
(Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values);
Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP),
Regulation (CE) n.790/2009, Regulation (CE) n.453/2010 (Annex I), Regulation n.286/2011 (ATP 2
CLP)

Regulation (EU) 2015/830

Where applicable, refer to the following regulatory provisions :

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Text of phrases referred to under heading 3:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H314 Causes severe skin burns and eye damage.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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This safety data sheet has been completely updated in compliance to Regulation 2015/830.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:



Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ACGIH: ACGIH

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

N.A.: Not Available

N.APP: Not applicable

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWA: Time-weighted average

WGK: German Water Hazard Class.