



LXA104 ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

Safety Data Sheet dated 11/3/2020, version 1

1. Identification

GHS Product identifier

Mixture identification:

Trade name:

ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

Other means of identification

Trade code:

LXA104

Recommended use and restrictions on use

Recommended use:

Industrial and professional uses (SU3 - SU22)

Paint additive

Supplier's details

Company:

NUOVA S.I.V.A.M. SpA - Via Monviso, 10 - 20010 BAREGGIO (MI) - Tel. +39 02 90304.1

Importer:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel :+1-800-361-6000

Emergency phone number for Canada: Canutec (613) 996-6666

Distributor:

Quincaillerie Richelieu Ltée/Richelieu Hardware Ltd.

7900 Henri-Bourassa Blvd. W.

Montreal, Quebec, Canada, H4S 1V4

Tel :+1-800-361-6000

Emergency phone number for Canada: Canutec (613) 996-6666

Competent person responsible for the safety data sheet:

msds@sivam.it




Emergency phone number

NUOVA S.I.V.A.M. SpA - Tel. +39 02 90304.1 (Monday - Friday 8.00 - 15.00)

Poison Centre - Ospedale di Niguarda - Milan - Tel. +39 02 66101029 (24 h)

2. Hazard identification

Classification of the hazardous product

-  Warning, Flam. Liq. 3, Flammable liquid and vapour.
-  Danger, Eye Dam. 1, Causes serious eye damage.
-  Warning, STOT SE 3, May cause drowsiness or dizziness.

GHS label elements, including precautionary statements

Hazard pictograms:



Danger

Hazard statements:

H226 Flammable liquid and vapour.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P310 Immediately call a POISON CENTER/doctor/...

P312 Call a POISON CENTER/ doctor/if you feel unwell.

P370+P378 In case of fire: Use ... to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Safety Data Sheet

LXA104 ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with applicable regulations.

Special provisions

None

Other hazards

None

Ingredient(s) with unknown acute toxicity

None.

3. Composition/Information on ingredients

Substances

N.A.

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

Qty	Name	Ident. Number	Classification
>= 65% - < 85%	n-butyl acetate	Index number: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH No.: 01-2119485493-29	⚠ B.6/3 Flam. Liq. 3 H226 ⚠ A.8/3 STOT SE 3 H336
>= 10% - < 30%	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	CAS: 2530-83-8 EC: 219-784-2	⚠ A.3/1 Eye Dam. 1 H318

The actual concentration of the components listed above is withheld as a trade secret.

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4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
 OBTAIN IMMEDIATE MEDICAL ATTENTION.
 Remove contaminated clothing immediately and dispose off safely.

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.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed, if necessary

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

Treatment:

None

5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

In case of fire: Use ... to extinguish.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties:

N.D. in volume

Oxidizing properties:

N.D.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Safety Data Sheet

LXA104 ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

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.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
- Methods and material for containment and cleaning up
 - Wash with plenty of water.

7. Handling and storage

- Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Do not use on extensive surface areas in premises where there are occupants.
 - 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.
 - See also section 8 for recommended protective equipment.
 - Advice on general occupational hygiene:
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
- Conditions for safe storage, including any incompatibilities
 - Always keep in a well ventilated place.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Avoid accumulating electrostatic charge.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - None in particular.
 - Instructions as regards storage premises:
 - Cool and adequately ventilated.
 - Safety electric system.
 - Storage temperature:
 - Store at ambient temperature.

8. Exposure controls/personal protection

- Control parameters
 - n-butyl acetate - CAS: 123-86-4
 - ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
- DNEL Exposure Limit Values
 - n-butyl acetate - CAS: 123-86-4
 - Worker Industry: 960 mg/m³ - Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
 - Worker Industry: 960 mg/m³ - Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 - Worker Industry: 480 mg/m³ - Worker Professional: 480 mg/m³ - Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 - Worker Industry: 480 mg/m³ - Worker Professional: 480 mg/m³ - Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
 - [3-(2,3-epoxypropoxy)propyl]trimethoxysilane - CAS: 2530-83-8
 - Worker Industry: 21 mg/kg - Consumer: 12.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 - Worker Industry: 147 mg/m³ - Consumer: 43.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 - Consumer: 12.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- PNEC Exposure Limit Values
 - n-butyl acetate - CAS: 123-86-4
 - Target: Fresh Water - Value: 0.18 mg/l
 - Target: Marine water - Value: 0.018 mg/l
 - Target: Intermittent emission - Value: 0.36 mg/l
 - Target: Freshwater sediments - Value: 0.98 mg/kg
 - Target: Marine water sediments - Value: 0.098 mg/kg
 - Target: Microorganisms in sewage treatments - Value: 35.6 mg/l
 - Target: Soil (agricultural) - Value: 0.09 mg/kg
 - [3-(2,3-epoxypropoxy)propyl]trimethoxysilane - CAS: 2530-83-8
 - Target: Fresh Water - Value: 1 mg/l
 - Target: Marine water - Value: 0.1 mg/l
 - Target: Intermittent emission - Value: 1 mg/l
 - Target: Freshwater sediments - Value: 0.79 mg/kg
 - Target: Marine water sediments - Value: 0.079 mg/kg

Safety Data Sheet

LXA104 ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

Target: Microorganisms in sewage treatments - Value: 10 mg/l

Target: Food chain - Value: 111 mg/kg

Target: Soil (agricultural) - Value: 0.13 mg/kg

Appropriate engineering controls

None

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Eye glasses with side protection. (EN166)

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. (EN374)

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

9. Physical and chemical properties

Appearance and colour:	colourless fluid
Odour:	typical
Odour threshold:	N.D.
pH:	N.A.
Melting point / freezing point:	N.D. °C
Initial boiling point and boiling range:	> 110 °C
Flash point:	> 23 °C
Evaporation rate:	N.D.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	7.5% - 1.2 % Vol. (n-butyl acetate)
Vapour pressure:	N.D. (20 °C)
Vapour density:	> 1
Relative density:	0.900 - 0.920
Solubility in water:	partial
Solubility in oil:	partial
Partition coefficient (n-octanol/water):	N.D.
Auto-ignition temperature:	> 300 °C
Decomposition temperature:	N.D. °C
Viscosity:	N.D.

10. Stability and reactivity

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), and nitrides.

It may catch fire on contact with oxidising mineral acids, powerful oxidising agents, and powerful reducing agents.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. Toxicological information

Information on toxicological effects

Toxicological information of the product:

ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

a) acute toxicity

Not classified

No data available for the product

b) skin corrosion/irritation

Not classified

No data available for the product

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

No data available for the product

e) germ cell mutagenicity

Not classified

Safety Data Sheet

LXA104 ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

No data available for the product

- f) carcinogenicity
Not classified
No data available for the product
- g) reproductive toxicity
Not classified
No data available for the product
- h) STOT-single exposure
The product is classified: STOT SE 3 H336
- i) STOT-repeated exposure
Not classified
No data available for the product
- j) aspiration hazard
Not classified
No data available for the product

Toxicological information of the main substances found in the product:

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10760 mg/kg - Source: OECD 423
 Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h - Source: OECD 403
 Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg - Source: OECD 402

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane - CAS: 2530-83-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 8025 mg/kg
 Test: LD50 - Route: Skin - Species: Rabbit = 4250 mg/kg
 Test: LC50 - Route: Inhalation - Species: Rat > 5.3 mg/l - Duration: 4h

n-butyl acetate - CAS: 123-86-4

The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation.

Symptoms of illness at 500 ppm. Serious toxic effects at 2.000 ppm for 60 min.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane - CAS: 2530-83-8

The substance, if swallowed can be harmful or lethal, since hydrolyses on the gastric-intestinal tract and produce methanol which is toxic. In case of poisoning, through ingestion, seek medical advice immediately and observe the latency period that can have also a duration of some days.

The substance must be used for professional use only.

Personal use or retail sale is forbidden.

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

Not classified for environmental hazards

No data available for the product

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96 - Notes: OECD 203
 Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48
 Endpoint: EC50 - Species: Algae = 674 mg/l - Duration h: 72

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane - CAS: 2530-83-8

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 324 mg/l - Duration h: 48
 Endpoint: EC50 - Species: Algae = 119 mg/l - Notes: 7 d
 Endpoint: LC50 - Species: Fish = 55 mg/l - Duration h: 96

Persistence and degradability

n-butyl acetate - CAS: 123-86-4

Biodegradability: Readily biodegradable

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane - CAS: 2530-83-8

Biodegradability: Non-readily biodegradable

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Safety Data Sheet

LXA104 ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

Other adverse effects
None

13. Disposal considerations

Safe handling and methods for disposal
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.

14. Transport information



UN number	
TDG number:	UN1263
ADR-UN Number:	1263
DOT number:	UN1263
IATA-UN Number:	1263
IMDG-UN Number:	1263
UN proper shipping name	
TDG-Shipping Name:	PAINT RELATED MATERIAL
ADR-Shipping Name:	PAINT RELATED MATERIAL
DOT-Shipping Name:	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base or Paint related material including paint thinning, drying, removing, or reducing compound
IATA-Shipping Name:	PAINT RELATED MATERIAL
IMDG-Shipping Name:	PAINT RELATED MATERIAL
Transport hazard class(es)	
TDG Class:	3
ADR-Class:	3
DOT Hazard Class:	3
ADR - Hazard identification number:	30
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3
Packing group	
TDG Packing group:	III
ADR-Packing Group:	III
DOT Packing group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
Environmental hazards	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	
N.A.	
Special precautions in connection with transport or conveyance	
TDG Special provisions:	59,142
DOT Special provisions:	367, B1, B52, B131, IB3, T2, TP1, TP29
ADR-Subsidiary hazards:	-
ADR-S.P.:	163 367 650
ADR-Transport category (Tunnel restriction code):	3 (D/E)
IATA-Passenger Aircraft:	355
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-EmS:	F-E , S-E
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

15. Regulatory information

Safety, health and environmental regulations specific for the product in question
This Safety Data Sheet has been prepared according to the Hazardous Products Regulations (HPR) - WHMIS 2015.
NPRI - National Pollutant Release Inventory
Substance(s) listed under NPRI:
n-butyl acetate is listed in NPRI Part 5.

Safety Data Sheet

LXA104 ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

DSL inventory - Domestic substances list

All the components are listed in the DSL..

NDSL inventory - Not Domestic substances list

no substances listed

TSCA inventory

All the components are listed on the TSCA inventory.

TSCA listed substances:

n-butyl acetate is listed in TSCA Section 8b

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane is listed in TSCA Section 8b, Section 8d HSDR.

USA - Federal regulations

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: n-butyl acetate.

Section 313 – Toxic chemical list: no substances listed.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: n-butyl acetate - Reportable quantity: 5000 pounds.

Reportable quantity for mixture: 6250 pounds.

CAA - Clean Air Act

CAA listed substances:

n-butyl acetate is listed in CAA Section 111.

CWA - Clean Water Act

CWA listed substances:

n-butyl acetate is listed in CWA Section 304, Section 311.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

n-butyl acetate.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

n-butyl acetate.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

n-butyl acetate.

Volatile Organic compounds - VOCs = 80.02 %

Volatile Organic compounds - VOCs = 736.18 g/l

Volatile CMR substances = 0.00 %

Organic Carbon - C = 0.50

16. Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H318 Causes serious eye damage.

Safety Data Sheet dated 11/3/2020, version 1

Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
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.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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).

Safety Data Sheet

LXA104 ADDITIVO di Adesione per Vetro - Adhesion Additive for Glass

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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration.
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